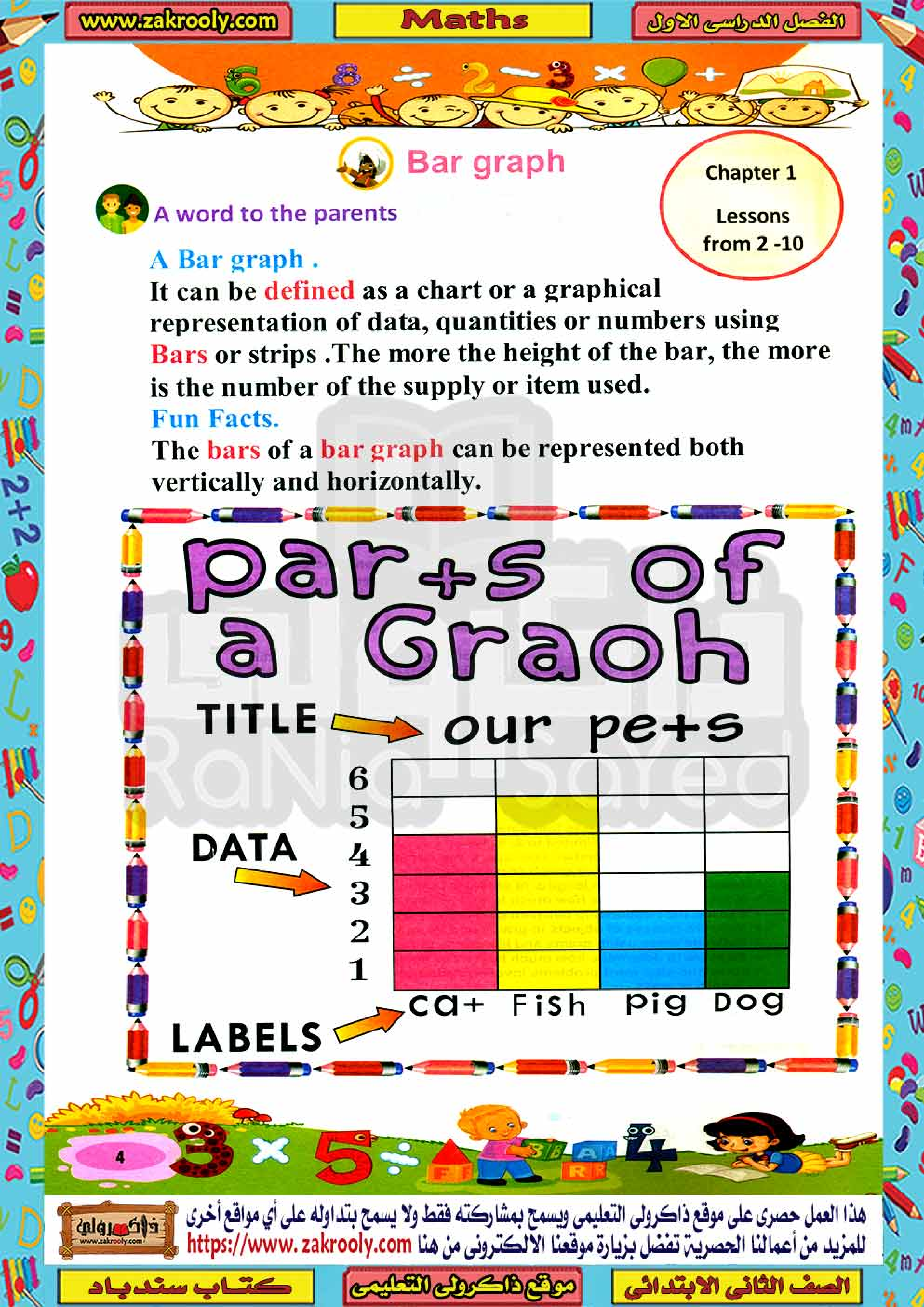


Bar graph

Chapter 1

Lessons from 2 -10

A word to the parents

A Bar graph .

It can be defined as a chart or a graphical representation of data, quantities or numbers using Bars or strips .The more the height of the bar, the more is the number of the supply or item used.

Fun Facts.

The bars of a bar graph can be represented both vertically and horizontally.

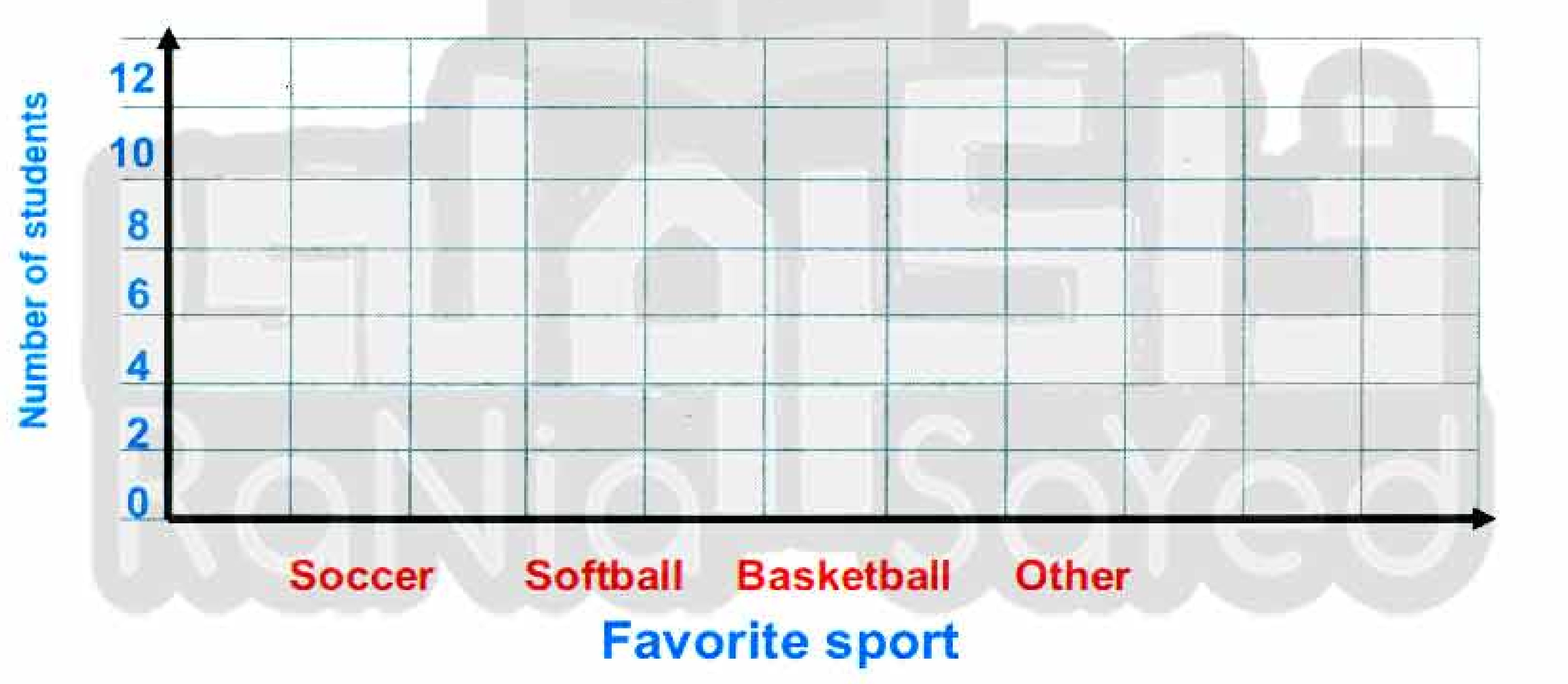




How can we make a bar graph to show this data?

Our Favorite Sports	
Soccer	10
Softball	4
Basketball	6
Other	8

Title : -------------



- How many students like to play Soccer ? ------
- How many students like to play Softball ? -----
- What is the most favorite sport? -----------
- What is the least favorite sport? -------------





Look at the Bar graph and answer the following questions .

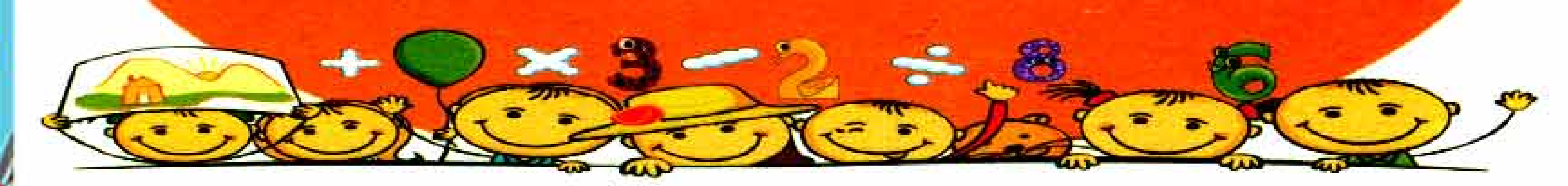
Students	Quiz Scores
Rick	12
Laura	8
Andy	12
Emily	16
Aaron	12
Steve	12

Who has scored the most marks ? ----------------

Who has scored the least marks ? ----------------

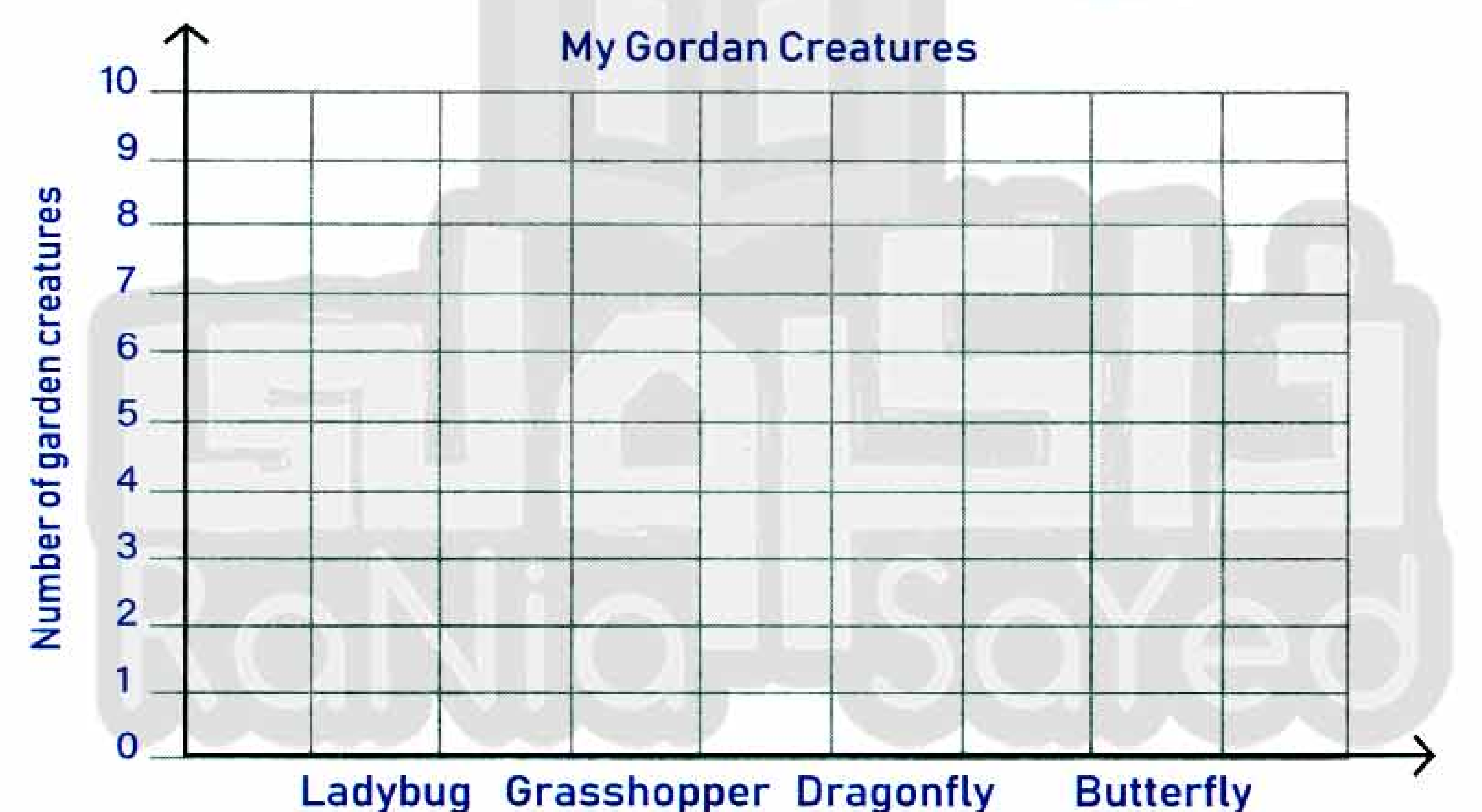
Who has scored the same marks ? ----------------

Who has scored more than 8 ? ----------------



Lily collected a data of garden creatures that she saw while walking through her garden .
Help lily to draw a bar graph to represent the data.

Ladybug	Grasshopper	Dragonfly	Butterfly
7 3	5 9		



1) How many grasshoppers did she see? ____________

2) Did she see more ladybugs or dragonflies? ____________

3) Which creature did she see the most? ____________

4) Name all the four garden creatures.

____



Ahmed needed some school supplies. He recorded the requirements in a table.
The school administration wanted Ahmed to show the requirements in a bar graph. Help him out!

Notebook	Pen	Eraser	Bag	Stapler
14	20	8	6	10

Title: ---------------------------

No. of supplies

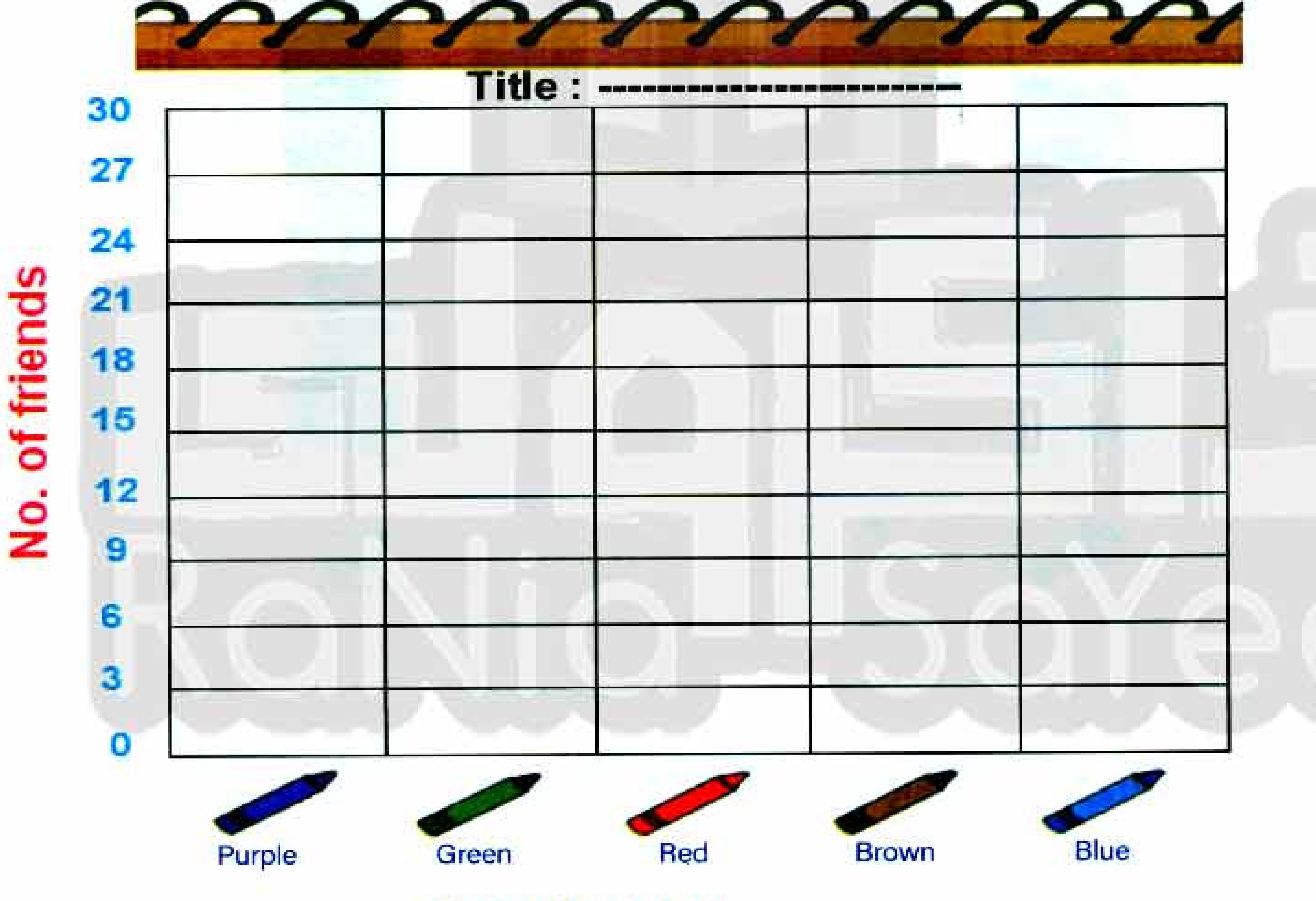
20					
18					
16					
14					
12					
10					
8					
4					
2					
0					

School supplies



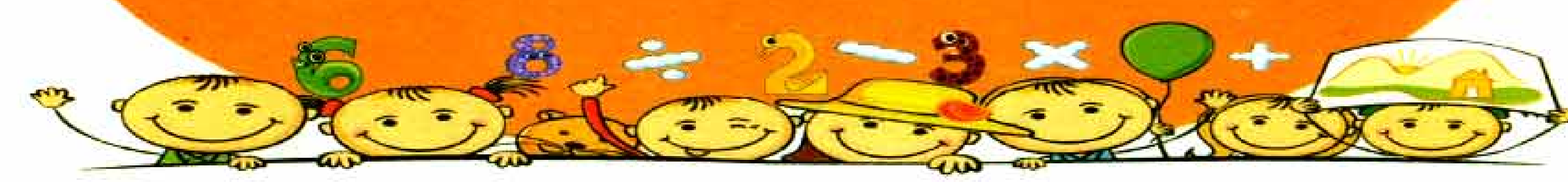
After taking a survey among my friends and their favorite color , I recorded the following data in the next table . Draw the bars and answer the following questions .

Purple	Green	Red	Brown	Blue
21	12	30	9	15

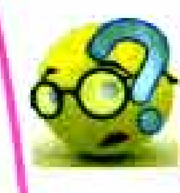


- What is the most favorite color ? ---------------
- What is the least favorite color ? ----------------
- How many friends like the green color ? -------------
- How many friends like the blue color ? -------------



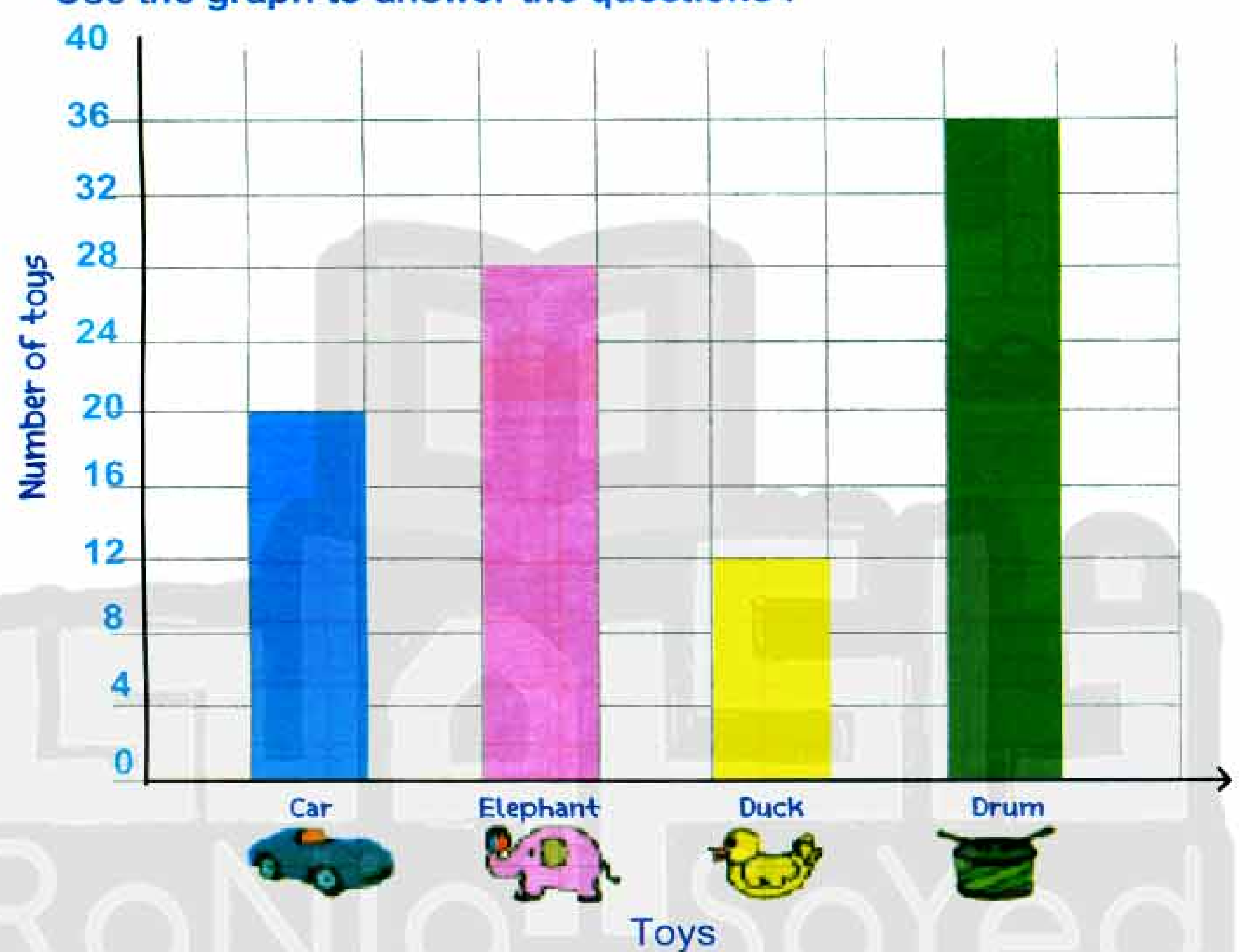


Bar Graph - Toy shop



The graph shows the number of toys sold on Monday at Andy's toy shop .

Use the graph to answer the questions .



5- How many cars were sold ? -------------------------

6- How many more elephants than ducks were sold ? ---------------

7- Which toy sold the most ? -----------------------

8- How many elephants and drums were sold in total ? -------------

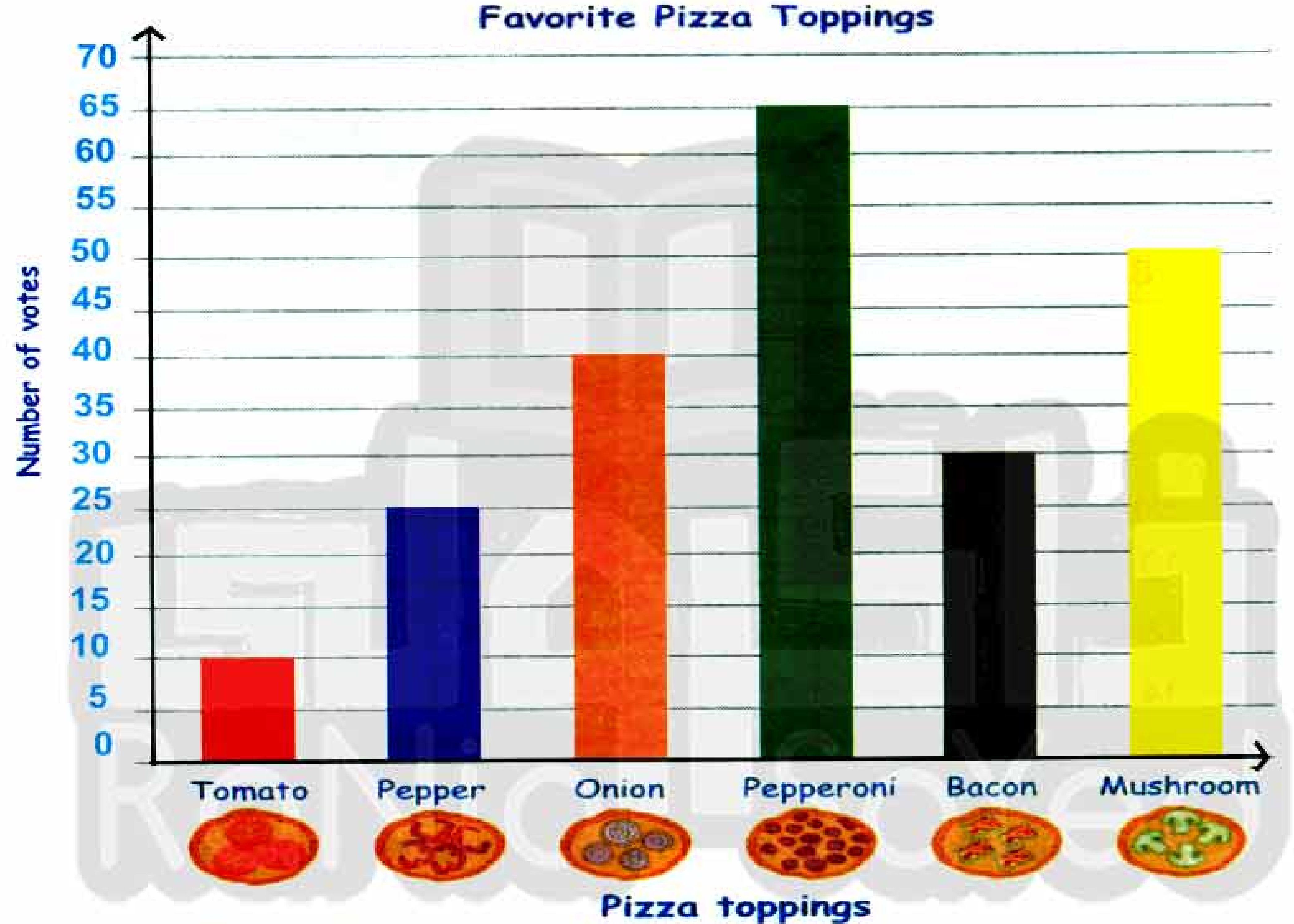
9- Which toy did the shop sell more car or duck ? -----------------





Pizza to Go are best in making Pizzas with six different toppings. They took a survey about customer's favorite toppings and recorded the results in a bar graph.

Use the bar graph to answer the questions.



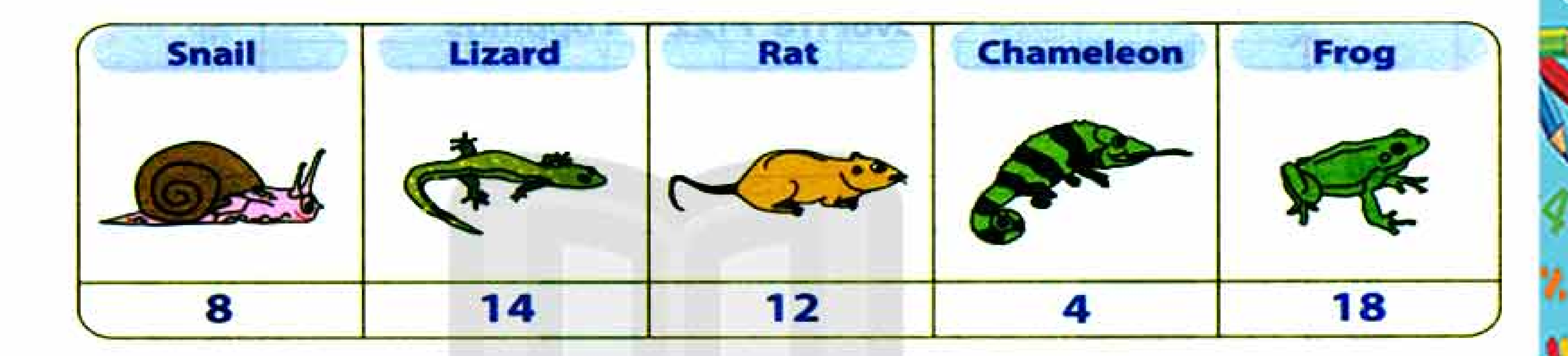
1- What is the most popular topping ? ------------------------------

2- How many customers have chosen either tomato or pepper toppings ? ------------------------------

3- Which topping has 25 votes ? ------------------------------

4- List the toppings in order from most popular to least popular .

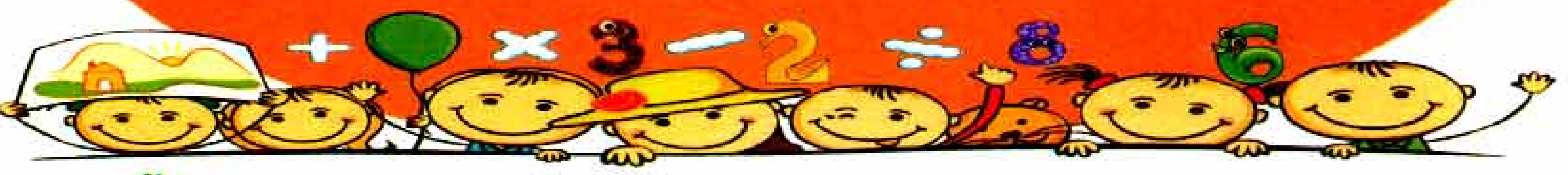
Iman is taking a survey about the little pets grown by her friends and records the data .
Using the given information , write the title of the bar , label the axis and draw the graph .



Snail	Lizard	Rat	Chameleon	Frog
8	14	12	4	18

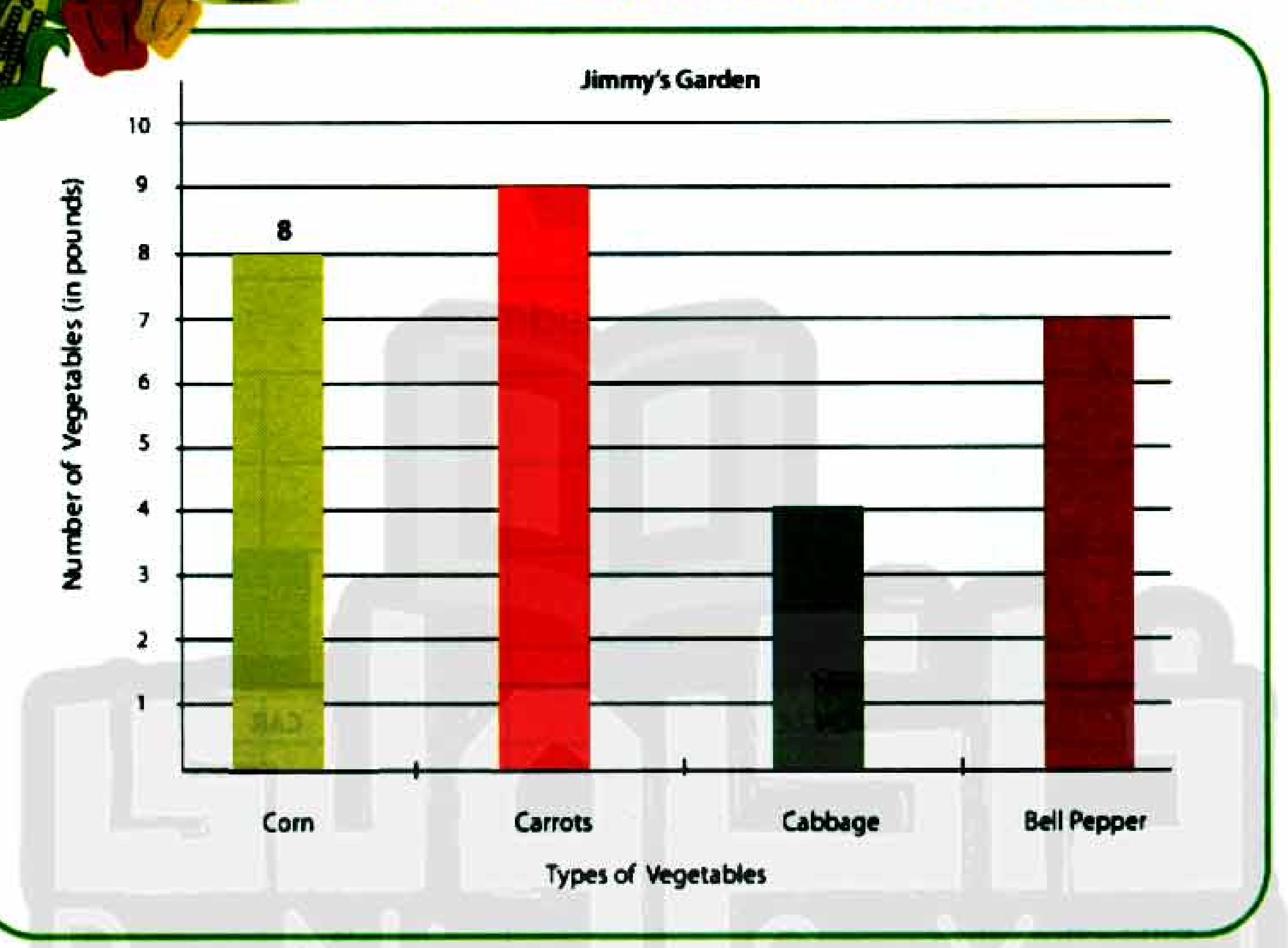
20
18
16
14
12
10
8
6
4
2
0





Go Organic!:

Read the bar graph to learn about vegetables . Jimmy grows in his backyard . Use the graph to answer .



1- Write the number of vegetables at the top of each bar . see the example

2- If Jimmy grows 3 more bell peppers , how many will he have grown in total ? --

3- How many more bell peppers will Jimmy need to grow to equal his corn crop ? --

4- How many more cabbages will Jimmy need to grow to equal his carrot crop ? Draw this in a pencil on the graph . -----------------------------

5- How many vegetables did Jimmy grow in total ?

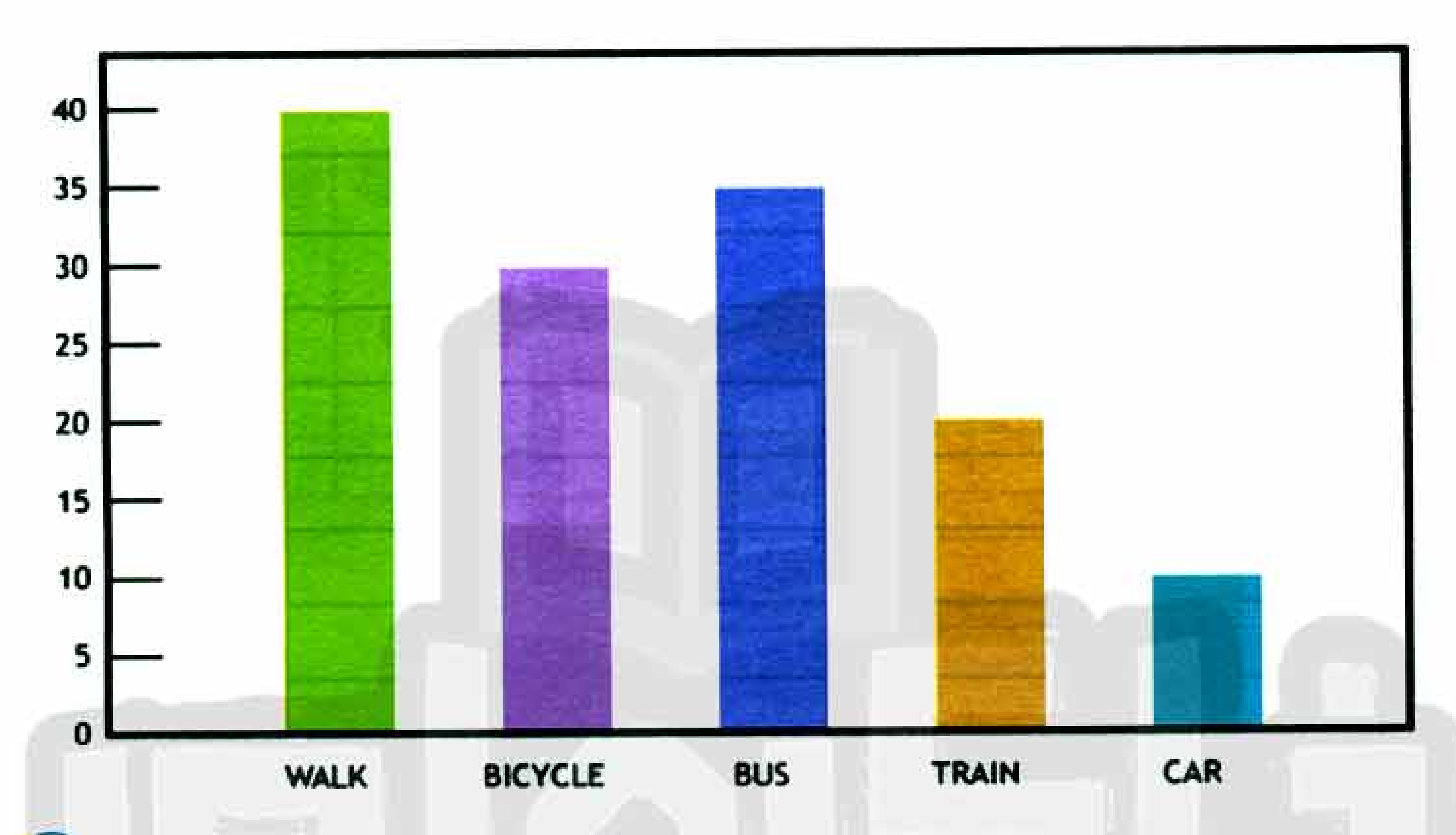




Getting to School



Use the **bar graph** to answer the questions.



A group of students at El Madina elementary school made a bar graph to show how they get to school.

1- Fill in the table .

Walk	Bicycle	Bus	Train	car

2- How many students ride their bicycle to school ? ----------------

3- Do more students ride their bicycle or get a ride in a car ? ---------------

4- How many more students take the bus to school than take the train ? -----------------------

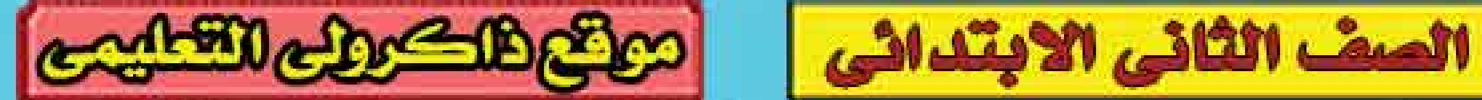
5- How many students take the train and walk to school together ? --------

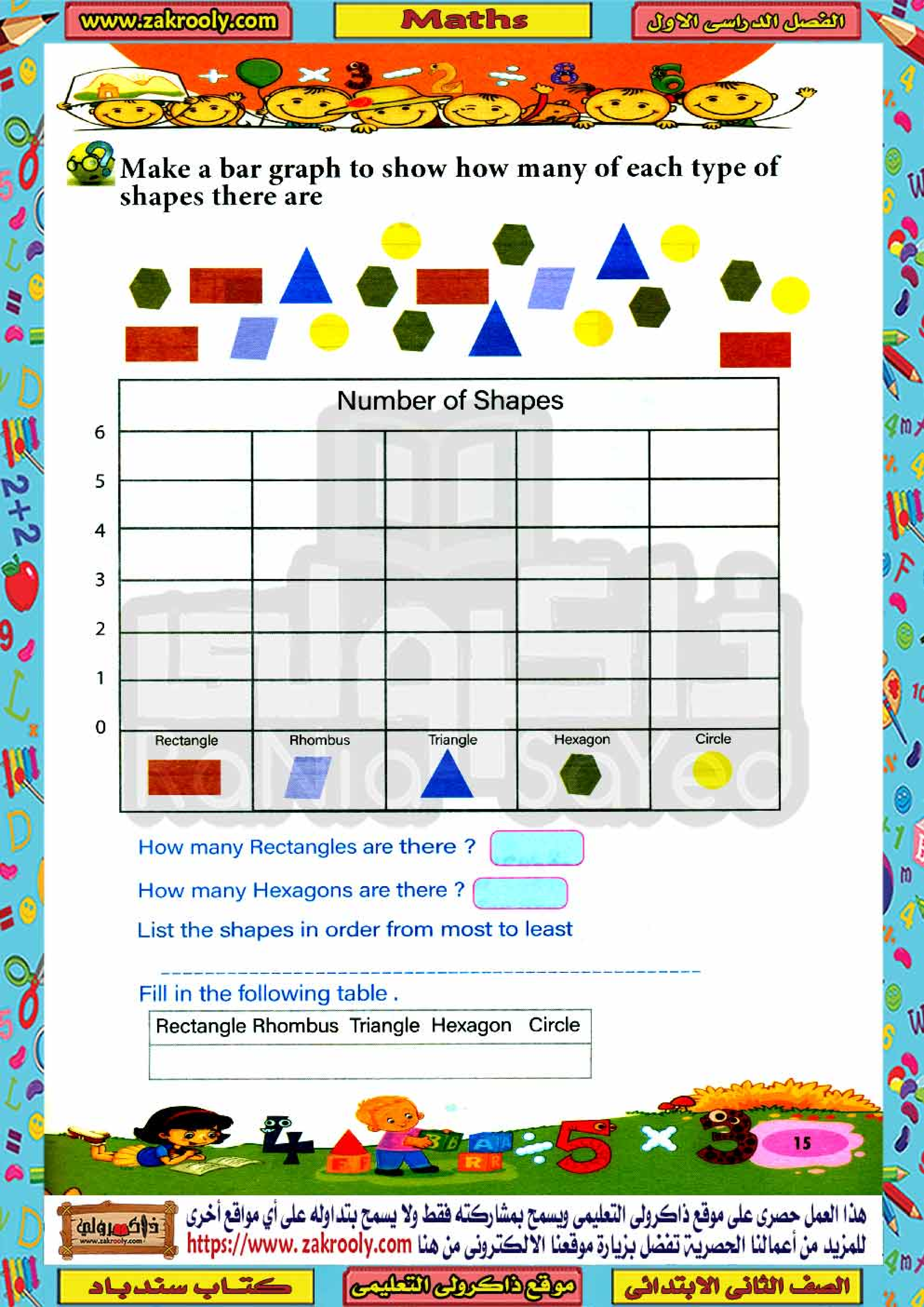
6- How do most of the students go to school ? ---------------------











Make a bar graph to show how many of each type of shapes there are

How many Rectangles are there ?

How many Hexagons are there ?

List the shapes in order from most to least

Fill in the following table .

Rectangle	Rhombus	Triangle	Hexagon	Circle

A bar graph to show pets owned by children in 1 Week

Type of pet	Number of children
Dog	5
Cat	3
Rabbit	4
Fish	8
Hamster	2

1- What is the most popular pet?

2- What is the least popular pet?

3- How many children own a cat?

4- How many more children own a rabbit than a hamster?

5- Which pet is owned by 5 children?

6- What is the difference between the number of children who own a dog and the number of children who own a cat?

Answer the following Pictograph .

Student survey - favourite fruits

1- Fill in the table .

Mangoes	Apples	Grapes	bananas	Oranges

2- Which fruit got the most votes ?

3- Which fruit got the least votes ?

4- How many people voted for grapes and oranges together ?

5- How many more people voted for bananas than mangoes ?

Look at the following graph and answer the following questions .

Class Sign-Ups

Classes: pottery, swimming, guitar, archery, ballet

Number of Sign-Ups: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1) How many students signed up for the guitar class?

2) How many students signed up for the swimming class?

3) How many in total were for the archery class or the pottery class ?

4) How many more students signed up for guitar than pottery ?

Look at the following graph and answer the following table .

Favorite Cartoon Characters

Character	Number of People
Bugs Bunny	2
Dora	10
Mickey Mouse	6
Tweety	5

1) How many people liked Mickey Mouse the best ?

2) Did more people like Tweety Or Dora ?

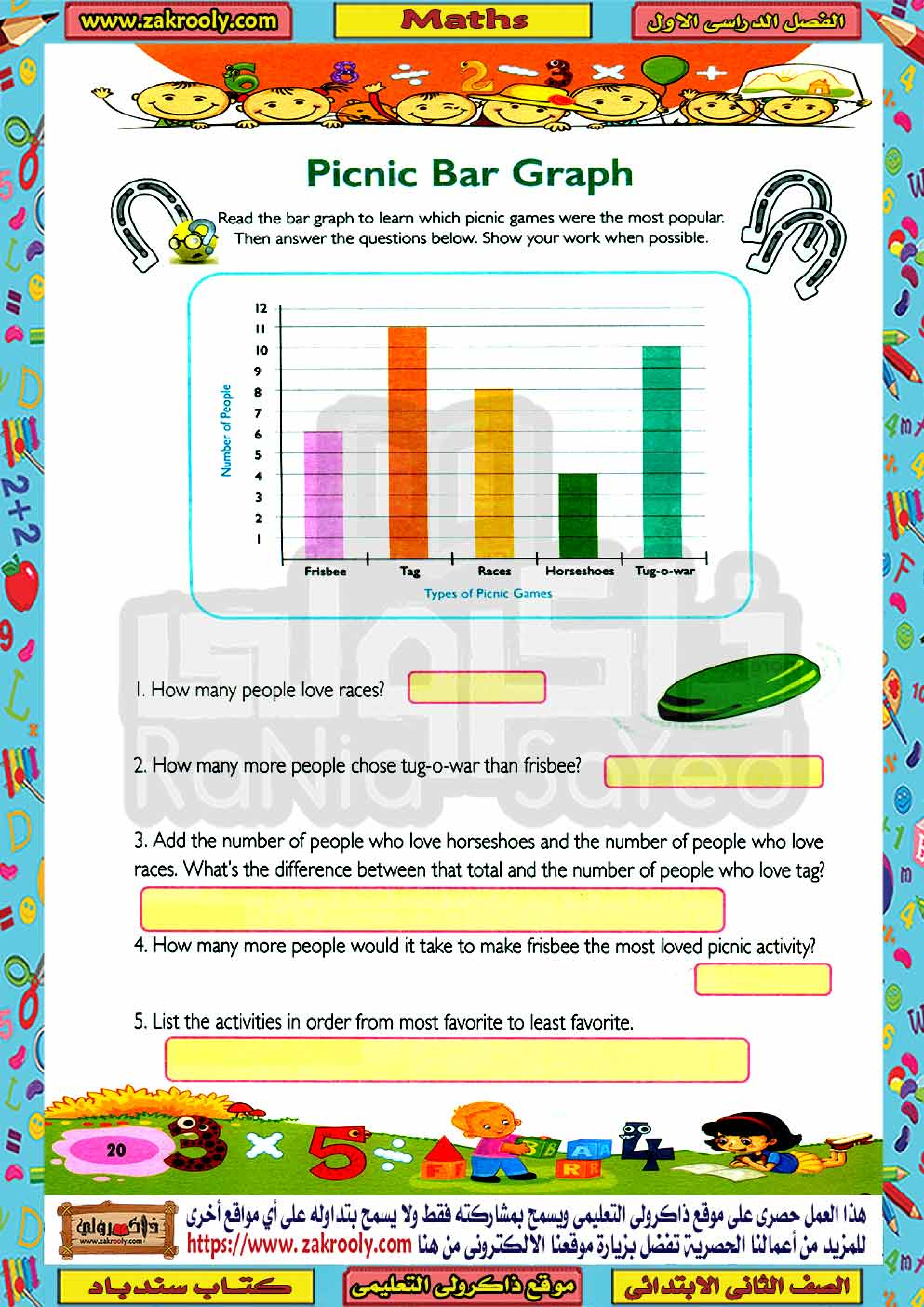
3) Which character did exactly 10 people say was their favorite ?

4) What is the difference in the number of people who liked Dora and the number who liked Tweety ?

5) What is the total number of people who liked Dora and Tweety ?

6) Which character did the largest number of people say was their favorite ?

7) Which character did the fewest number of people say was their favorite ?



Picnic Bar Graph

Read the bar graph to learn which picnic games were the most popular. Then answer the questions below. Show your work when possible.

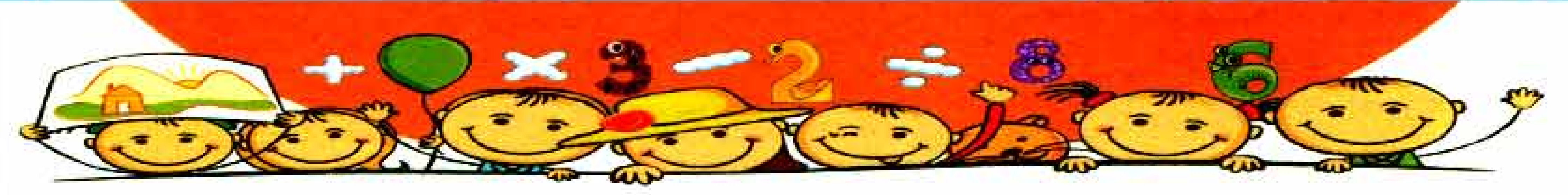
1. How many people love races?

2. How many more people chose tug-o-war than frisbee?

3. Add the number of people who love horseshoes and the number of people who love races. What's the difference between that total and the number of people who love tag?

4. How many more people would it take to make frisbee the most loved picnic activity?

5. List the activities in order from most favorite to least favorite.



Playing ball !

Look at the following bar graph and answer the questions below .

Number of players on the field

American Football
Baseball
Basketball
Beach Volleyball
Ice Hockey
Lacrosse
Soccer
Volleyball

0 1 2 3 4 5 6 7 8 9 10 11

1) Which sports have the most number of players on the field ? ______________

2) How many more players does the basketball team have than the beach volleyball team ? ______________

3) Which sports have the same number of players ?________

4) Which sports have the least number of players ? ________

5) How many fewer players does the lacrosse team have than the soccer team ? ______________

6) Which sport have 9 players ? ______________







Pictographs



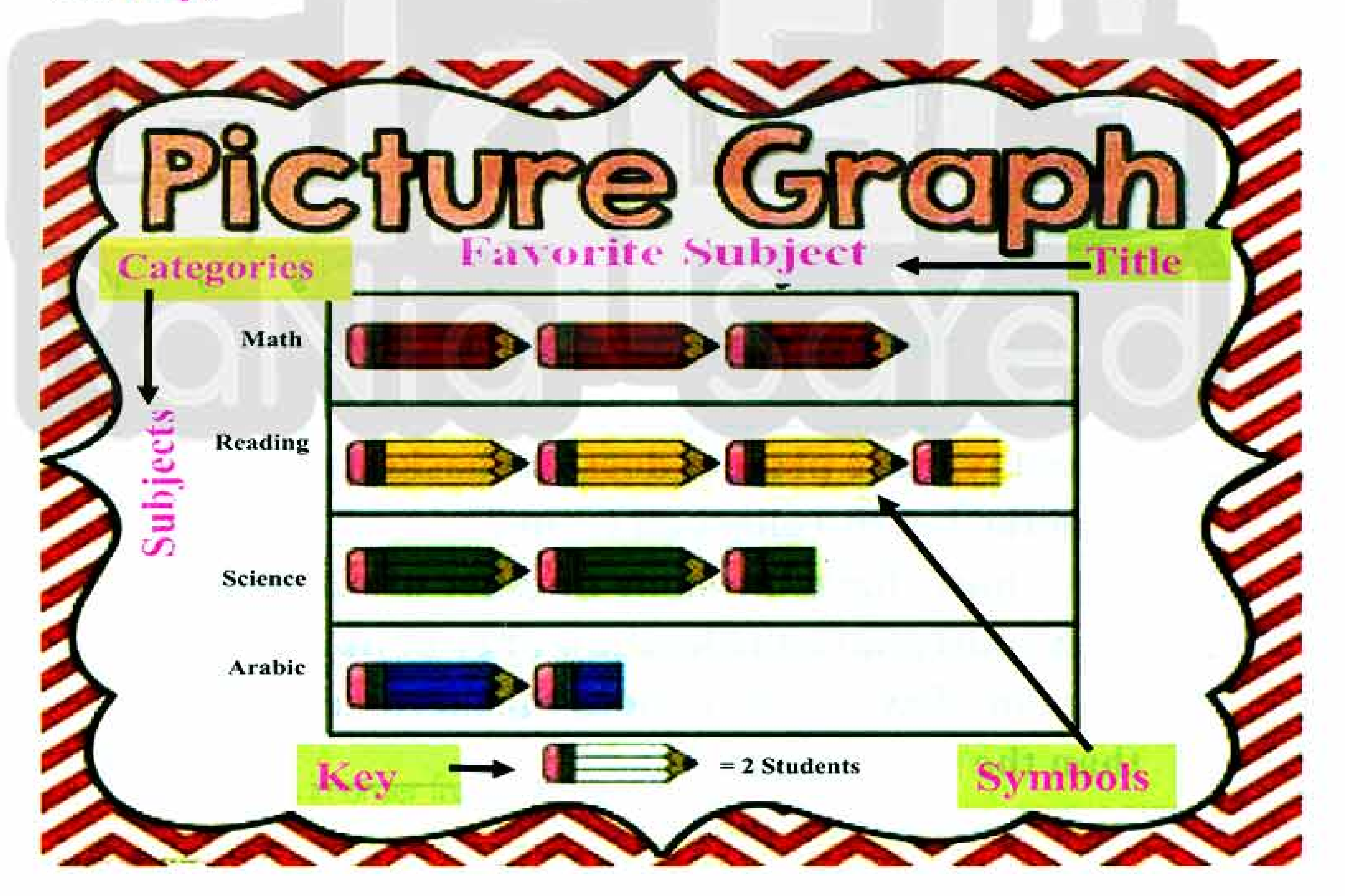
A word to the parents

A pictograph

Is a graph that uses pictures or symbols to show the value of data .

In the picture graph you will find a key .

The key tells us how much each image represents. Quantity means how much. Sometimes the key tells you that each element represents 1 , 2, 5 or 10 but if you have half the image, it means half the number shown in the key.



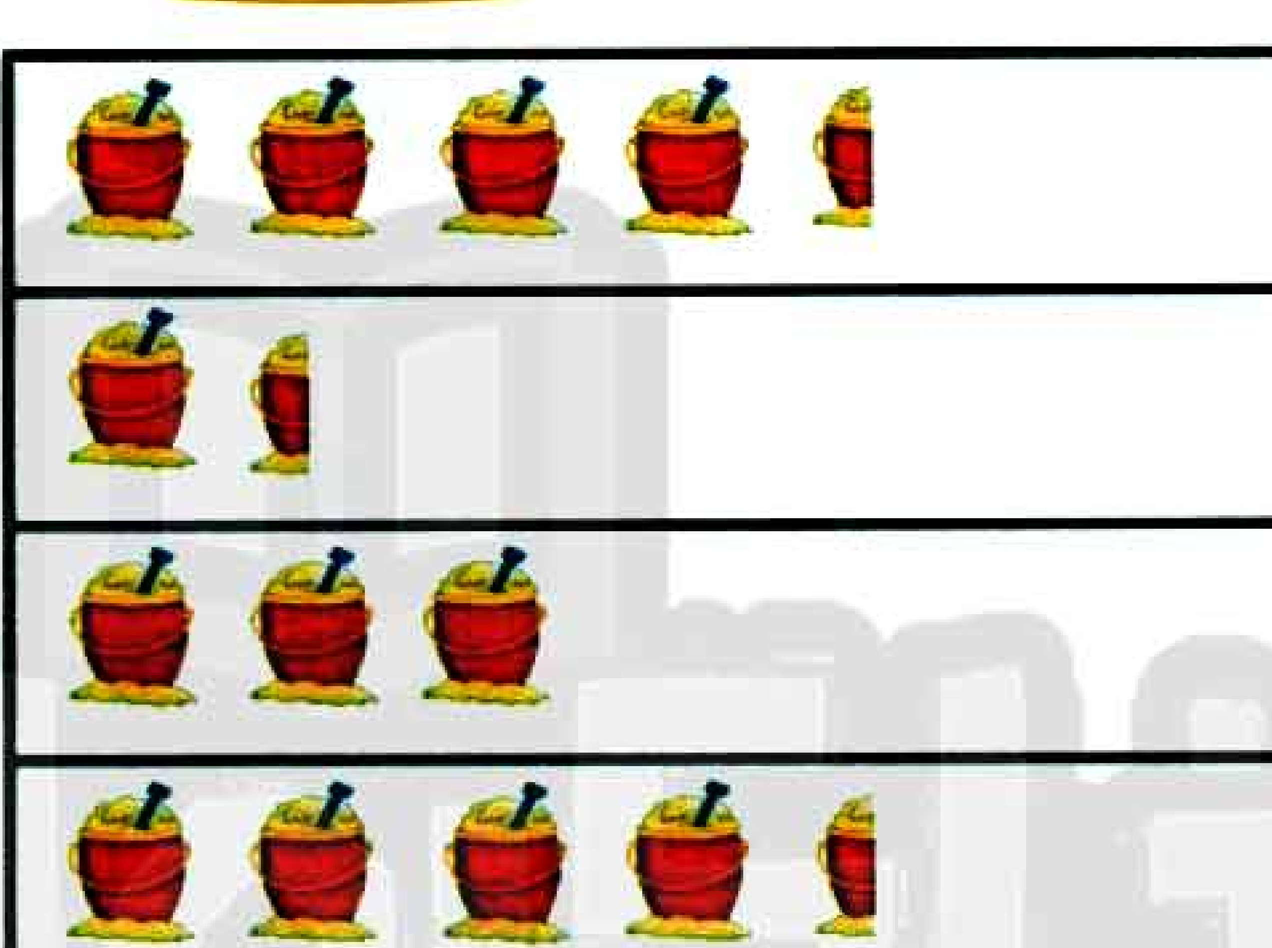






 **How many sand castles did we build ?**





Carolyn

Hayley

Dane

Hannah

Hunter

Lawson

scale: = 2 sand castles

Fill in the blank with the number of sandcastles each child built.

Carolyn __________ Hayley __________ Dane __________
Hannah __________ Hunter __________ Lawson __________



Christmas Gifts

Steven , Gloria ,Andrew and Jessica received Christmas gifts from Santa Clause . Use the Pictograph to answer the questions .

Christmas Gifts

Name	Number of Gifts
Steven	🎁 🎁 🎁
Gloria	🎁 🎁 🎁 🎁 🎁 🎁
Andrew	🎁 🎁
Jessica	🎁 🎁 🎁 🎁

Key
🎁 = 2 Gifts

1) Who got the most number of gifts ? ________

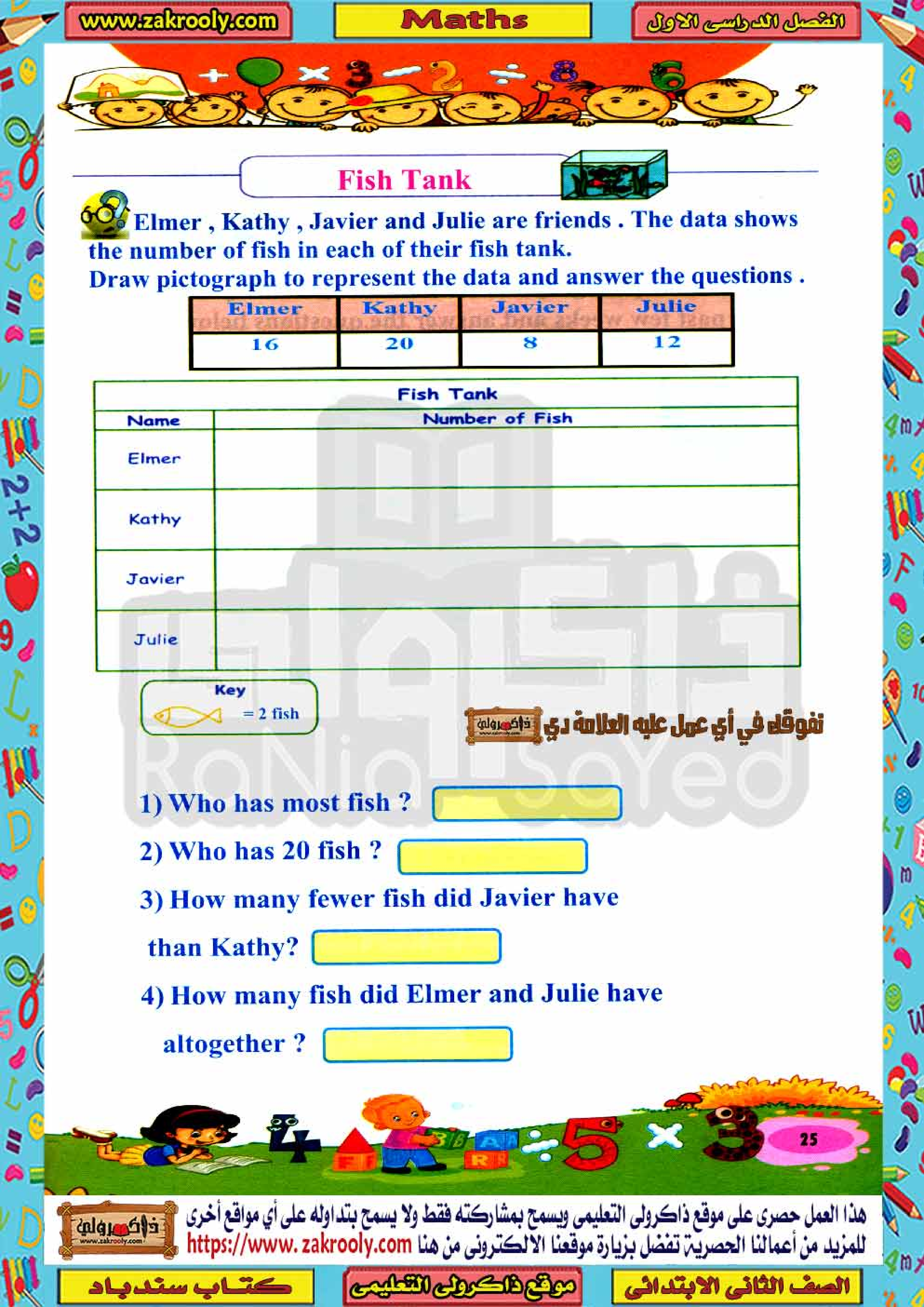
2) How many gifts did Andrew get ? ________

3) Who got more gifts Jessica or Steven ? ________

4) How many gifts did Gloria and Jessica get altogether ? ________

5) Who got six gifts ? ________

6) How many more gifts did Steven get than Andrew ? ________



Fish Tank

Elmer , Kathy , Javier and Julie are friends . The data shows the number of fish in each of their fish tank.

Draw pictograph to represent the data and answer the questions .

Elmer	Kathy	Javier	Julie
16	20	8	12

Fish Tank	
Name	**Number of Fish**
Elmer	
Kathy	
Javier	
Julie	

Key
= 2 fish

تفوقك في أي عمل عليه العلامة دي

1) Who has most fish ?

2) Who has 20 fish ?

3) How many fewer fish did Javier have than Kathy?

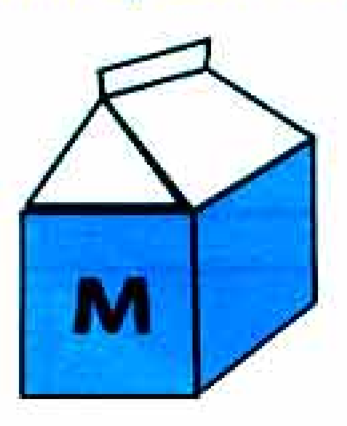
4) How many fish did Elmer and Julie have altogether ?



Milk Helps you Grow !



Use the pictograph to see how many Tommy had in the past few weeks and answer the questions below .



Week	Amount of Milk
Week 1	M M M
Week 2	M M M M M
Week 3	M M M M
Week 4	M M M M M M
Week 5	M M M M M


= 3 glasses of milk

Questions:

1. How many glasses of milk did Tommy have in the first week?

Answer: ________________________________

2. How many glasses of milk did Tommy have in week 4?

Answer: ________________________________

3. Which week did Tommy have the least amount of milk?

Answer: ________________________________

4. Which week did Tommy have the most milk? How much more was this compared to to week 5?

Answer: ________________________________

5. How many glasses of milk in total did he drink from week 1 to week 5?

Answer: ________________________________







Growing Trees

Trees are important natural resources. Find out how many trees Bobby planted in the past few weeks by reading the pictograph below. Then, answer the questions.

Note: each tree in the pictograph stands for 2 trees.

WEEK	NUMBER OF TREES
WEEK 1	🌳 🌳 🌳
WEEK 2	🌳 🌳 🌳 🌳 🌳 🌳 🌳
WEEK 3	🌳 🌳 🌳 🌳 🌳 🌳 ½🌳
WEEK 4	🌳 🌳 🌳 🌳 🌳
WEEK 5	🌳 🌳 🌳 🌳 🌳 ½🌳

1. What does this symbol represent ? (half tree) ______ (🌳 = 2 trees)

2. How many trees did Bobby plant in week 3 ? ______

3. In which week did Bobby plant the fewest trees ? how many did he plant that week ? ______

4. In which week did Bobby plant the most trees ? how many did he plant that week ? ______

5. Draw symbols to represent 5 trees ? ______



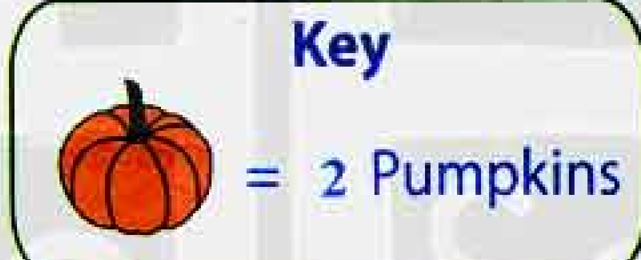


Pumpkin Harvest



The pictograph shows the number of pumpkin harvested by five farmers in the fall season .
Use the graph to answer the questions .

Pumpkin Harvest	
Name	Number of Pumpkins
Danny	
Jacob	
Ray	
Edwin	
Alex	



1) Who harvested the most? ________________

2) How many pumpkins did Jacob harvest? ________________

3) Who harvested 250 pumpkins? ________________

4) Name the farmers who have harvested the same number of pumpkins? ________________

5) Danny harvested more pumpkins than Ray. Is that true? ________________





Jam Factory



The pictograph shows the number of bottles produced each day .
Use the information from the graph to answer the questions .

Jam Bottles Exported	
Day	Number of Jam Bottles
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	



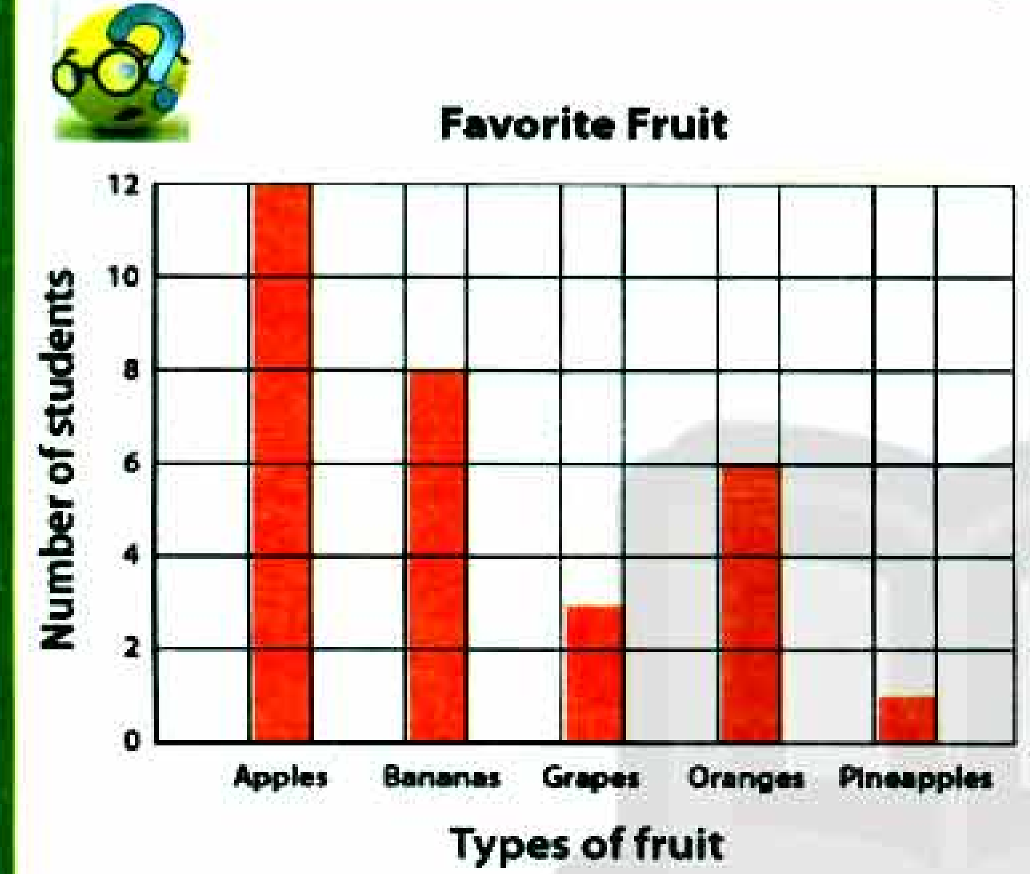
1. Which 2 days did they produce fewer bottles of jam ?
2. How many key images would represent 11 Jars ?
3. How many more bottles of jam were produced on Friday than Monday ?
4. How many bottles of jam were produced on Wednesday and Thursday altogether ?
5. How many bottles did the factory produce each week ?





Graph practice !

Directions: Look at the information in the bar graph. Then, circle the correct answer.



1. How many more kids like apples than grapes?

   a. 12 b. 4 c. 9

2. How many kids like apples and bananas?

   a. 20 b. 15 c. 8

3. How many kids like oranges?

   a. 1 b. 6 c. 3

Directions: Look at the information in the picture graph. Then, circle the correct answer.



Points Scored

Allen	🏀🏀🏀🏀
Tyron	🏀🏀🏀🏀🏀
Chris	🏀🏀
Jeff	🏀🏀🏀🏀🏀🏀

🏀 = 2 points

1. How many more points did Allen score than Chris?

   a. 8 b. 4 c. 2

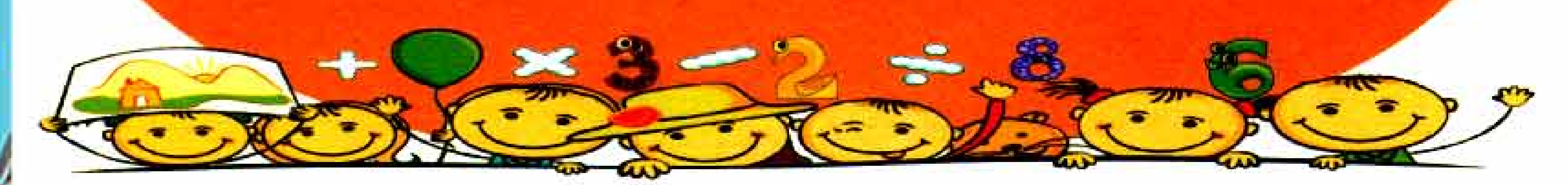
2. How many points were scored in all?

   a. 34 b. 17 c. 10

3. Who scored the most points?

   a. Chris b. Jeff c. Allen





Free Refills

This pictograph shows the number of drinks sold at each place .
Use the chart to answer the following questions .

Restaurant	Number of Drinks Sold
Tasty Taco	🥤🥤🥤🥤
Corner Burger	🥤🥤🥤🥤🥤🥤
Paul's Pizza	🥤🥤🥤
Chicken Hut	🥤🥤🥤🥤🥤🥤🥤🥤🥤
Pasta Dreams	🥤🥤🥤🥤🥤🥤🥤

Each 🥤 =10 drinks

1) How many drinks did Tasty Taco and Paul's Pizza sell together ? ______

2) Which place sold the most refills ? ______











Read and answer questions about a pictograph.

This pictograph shows how a class of children travel to school.

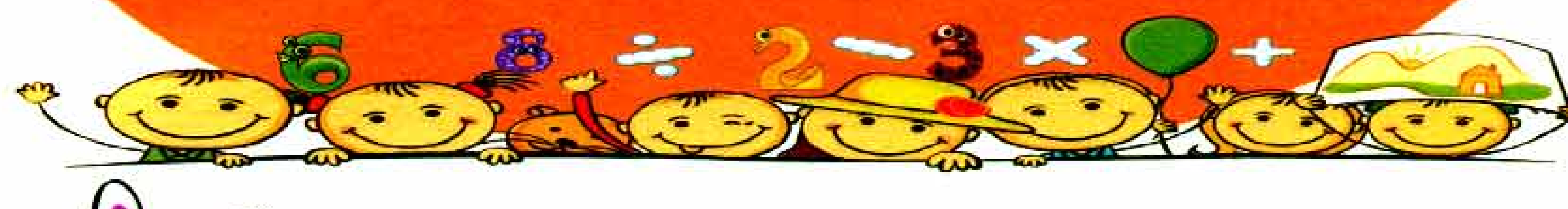
☺ = 2

walk	☺	☺	☺	☺	☺		
bus	☺	☺					
scooter	☺	☺	☺	☺			
bike	☺	☺	☺				
car	☺	☺	☺	☺	☺	☺	

1. How many children travel by scooter? ________
2. How many children travel by car? ___________
3. Which is the least popular way of travelling to school?________
4. Which is the most popular way of travelling to school?________
5. How many children walk and travel by bike all together?________
6. How many more children travel by scooter than on a bus?_______



Use the data from the previous Pictograph to create a bar graph.





Carrots for Bunnies Reading a Pictograph

Your friends feed carrots to their pet bunnies. Find out how many carrots they gave to their pets and answer the questions below. Note: each carrot in the pictograph stands for 2 carrots fed.

Owner	Number of Carrots
Tony's	🥕🥕🥕🥕🥕🥕🥕
Sammy's	🥕🥕🥕🥕🥕
Lily's	🥕🥕🥕🥕🥕🥕🥕🥕

🥕 = 2 carrots



Questions:

1. How many carrots did Tony feed his bunny?

Answer: ______________________________

2. How many carrots did Sammy feed her bunny?

Answer: ______________________________

3. Who fed the most carrots?

Answer: ______________________________

4. Who fed 12 carrots?

Answer: ______________________________

5. Who fed more carrots, Tony or Lily?

Answer: ______________________________











Tomato Fest

The numbers of tomatoes are shown in the pictograph below.
Use the information below to answer the following questions .

Day	Picked Tomato
Day 1	🍅🍅🍅🍅🍅🍅
Day 2	🍅🍅🍅🍅
Day 3	🍅🍅🍅🍅
Day 4	🍅🍅🍅

🍅 = 5 tomatoes

Questions:

1. How many tomatoes did the farmer pick on the first day?

Answer: ______________________________

2. What day did the farmer pick the most tomatoes?

Answer: ______________________________

3. Which days did the farmer pick the same amount of tomatoes? How many did he pick in total both of those days?

Answer: ______________________________

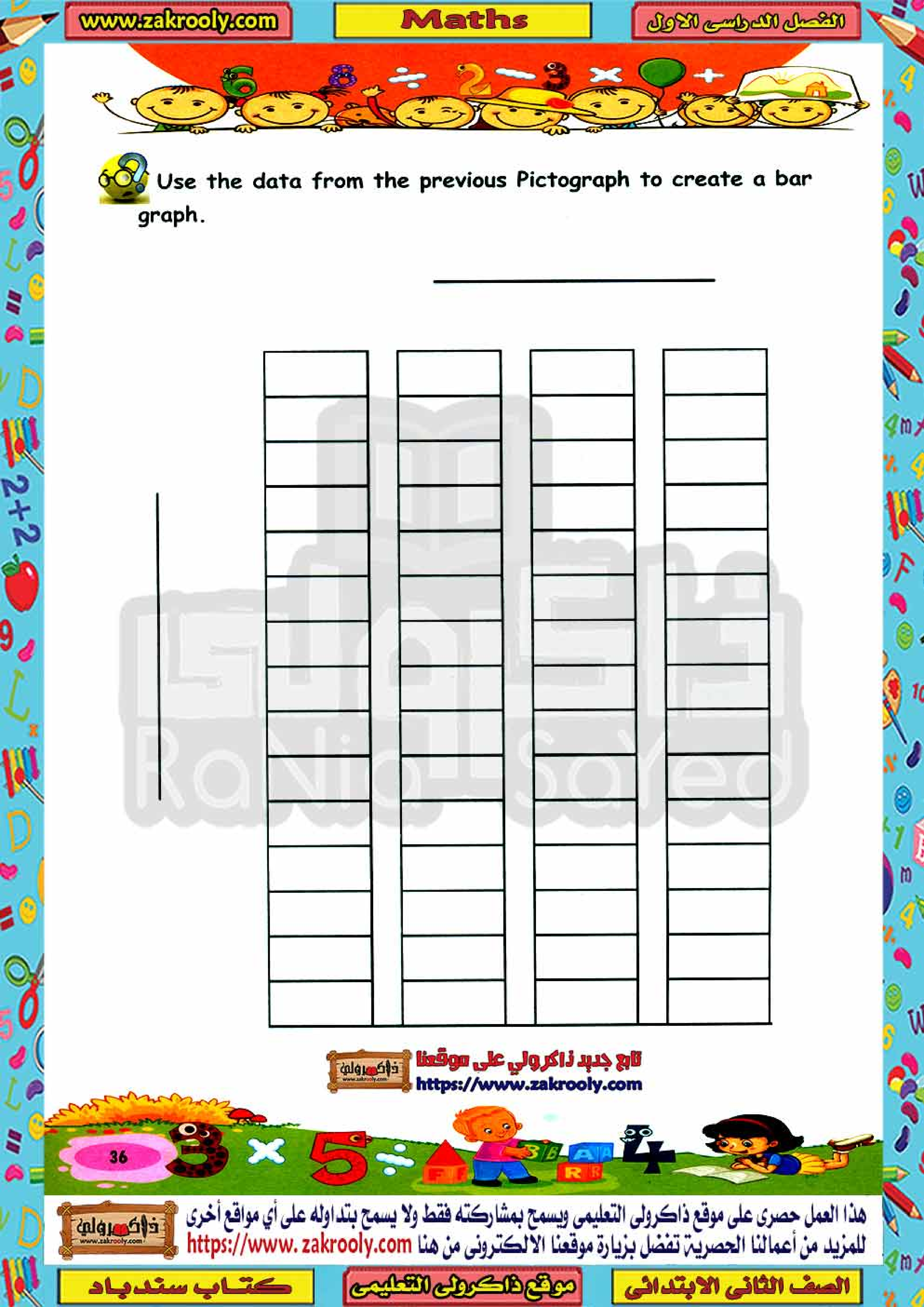
4. What's the difference between the number of tomatoes picked on Day 3 and Day 4?

Answer: ______________________________

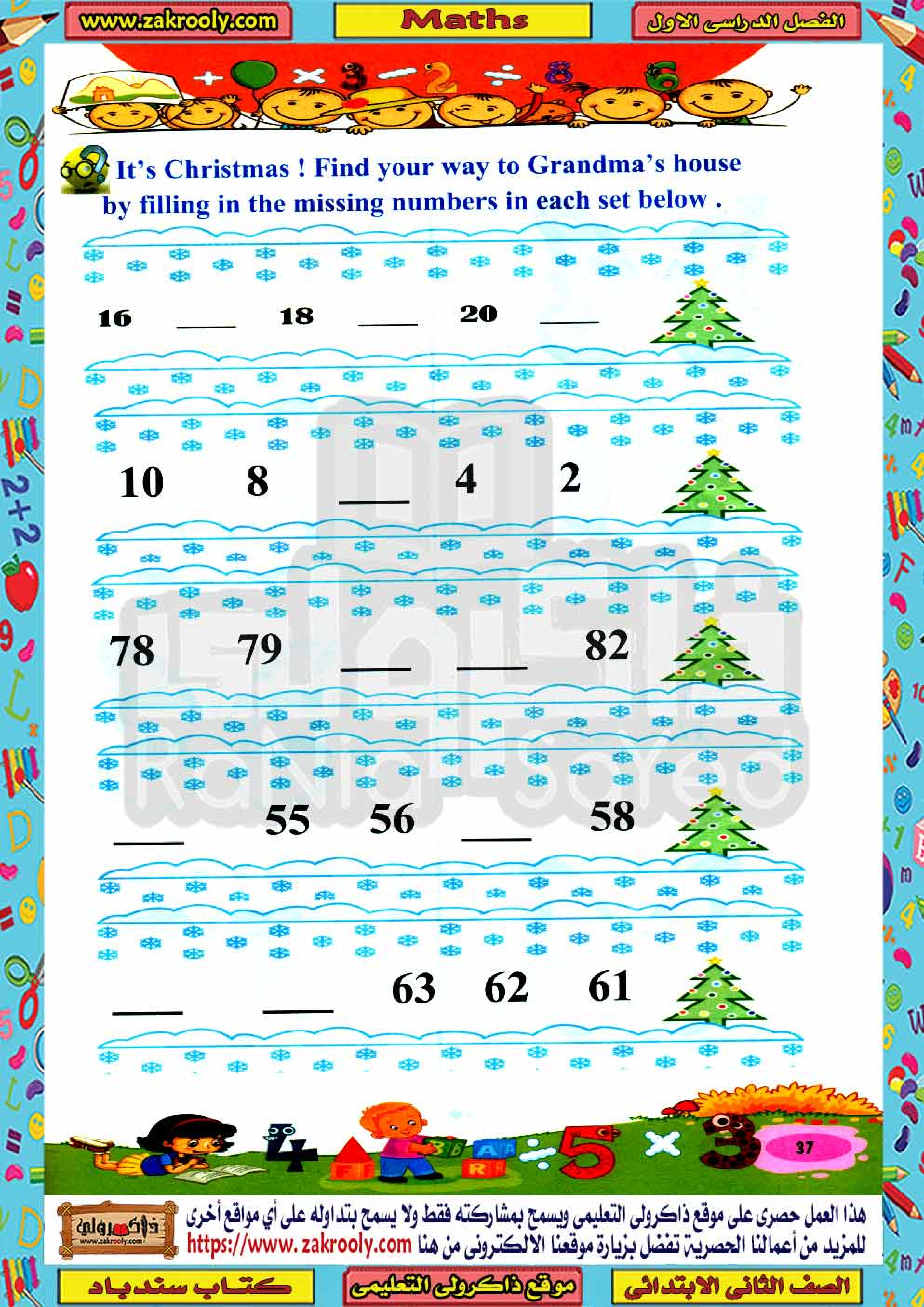
5. How many tomatoes in total did he pick for this season?

Answer: ______________________________





Use the data from the previous Pictograph to create a bar graph.



It's Christmas ! Find your way to Grandma's house by filling in the missing numbers in each set below .

16 ____ 18 ____ 20 ____

10 8 ____ 4 2

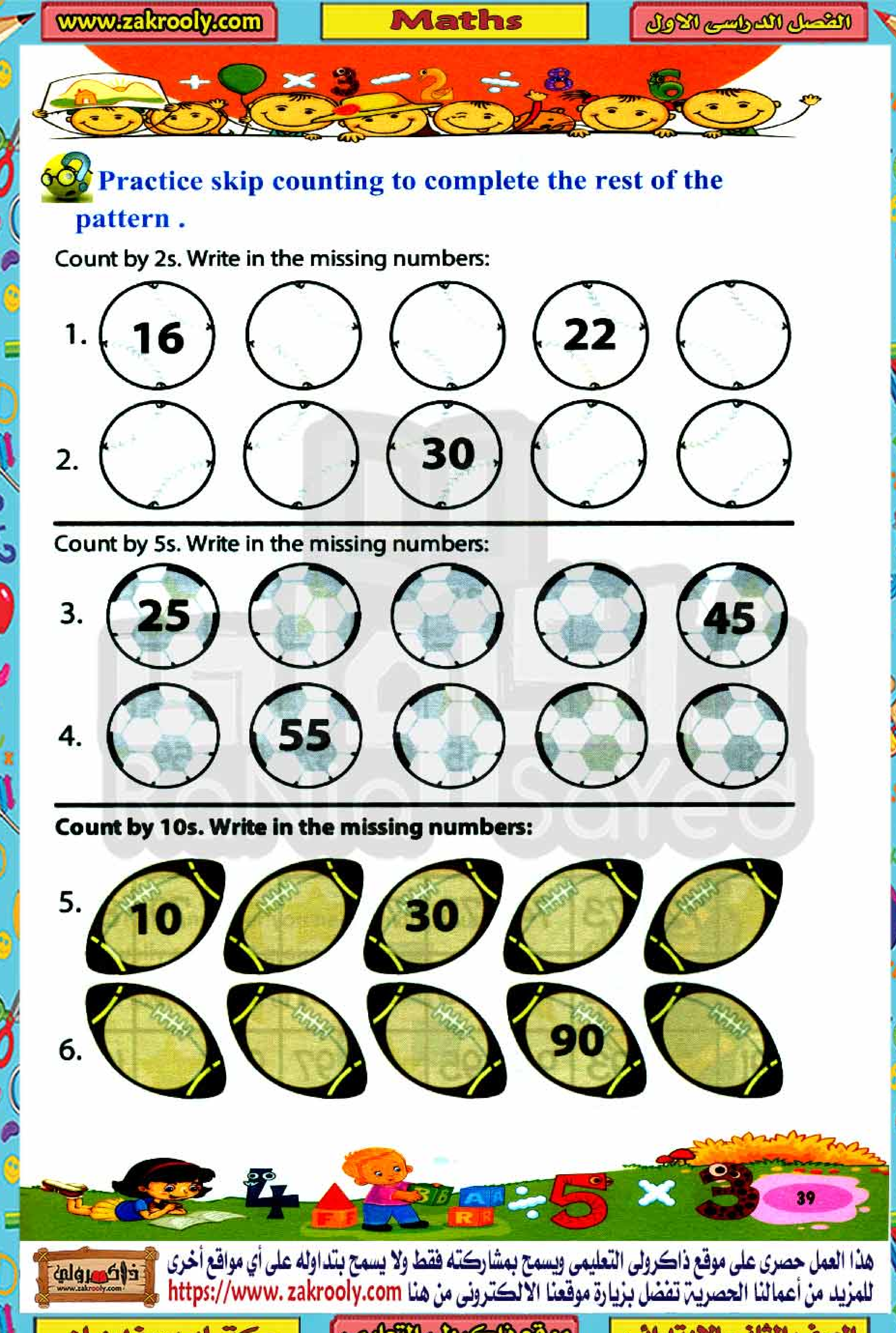
78 79 ____ ____ 82

____ 55 56 ____ 58

____ ____ 63 62 61



Put the suitable sign < , > or =



Practice skip counting to complete the rest of the pattern .

Count by 2s. Write in the missing numbers:

1. 16 ___ ___ 22 ___

2. ___ ___ 30 ___ ___

Count by 5s. Write in the missing numbers:

3. 25 ___ ___ ___ 45

4. ___ 55 ___ ___ ___

Count by 10s. Write in the missing numbers:

5. 10 ___ 30 ___ ___

6. ___ ___ ___ 90 ___

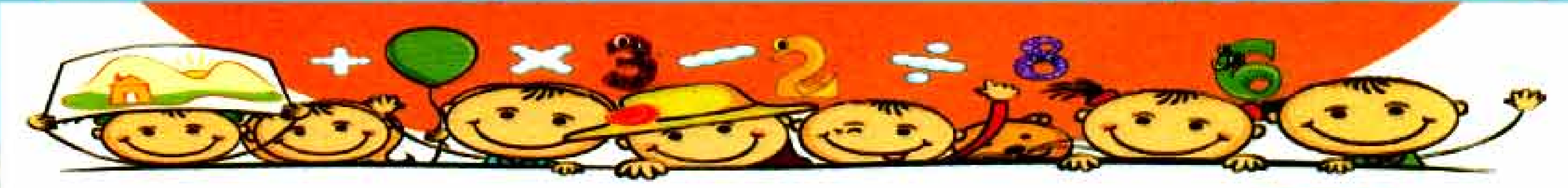
Missing Numbers: 1-100

This hundreds chart is missing some numbers. Use your knowledge of number patterns to fill in the chart! You may work in any order you choose! Which pattern is easiest to fill in? You decide!

1	2		4	5	6			9	10
11		13	14			17	18	19	20
21	22	23		25		27	28	29	
	32	33	34	35	36		38		40
41	42		44		46	47		49	50
51			54	55	56	57	58	59	
61	62	63		65		67	68		70
	72	73	74	75	76			79	80
	82	83		85	86	87		89	90
91		93	94	95		97	98		100









Chapter 2

Lessons from 11 -20



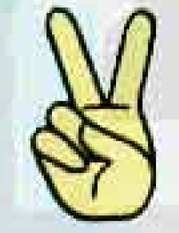
A word to the parents

By the end of this lesson your child should be able to

- Double and half any number within 20 .



To double a number we add that number to itself.

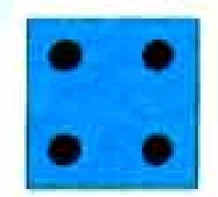
For example:  + 2 + 2 = 4

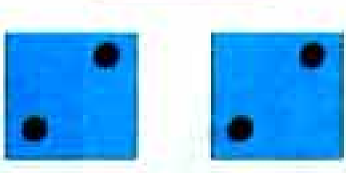
To double **3** we add **3**.

3 + 3 = 6

To Half a number you need to distribute it equally among 2 groups

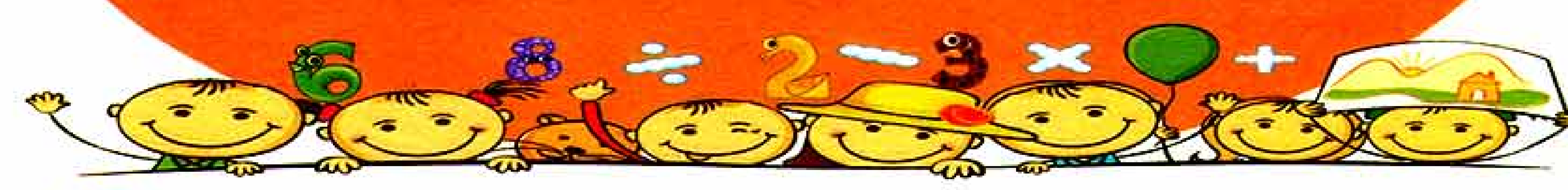
For example half of 4





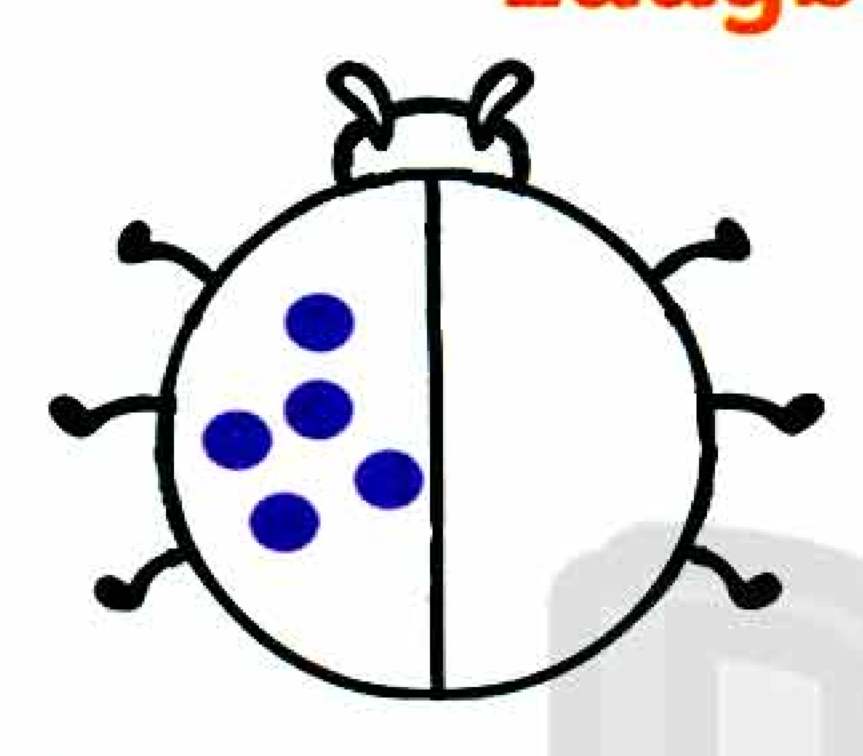




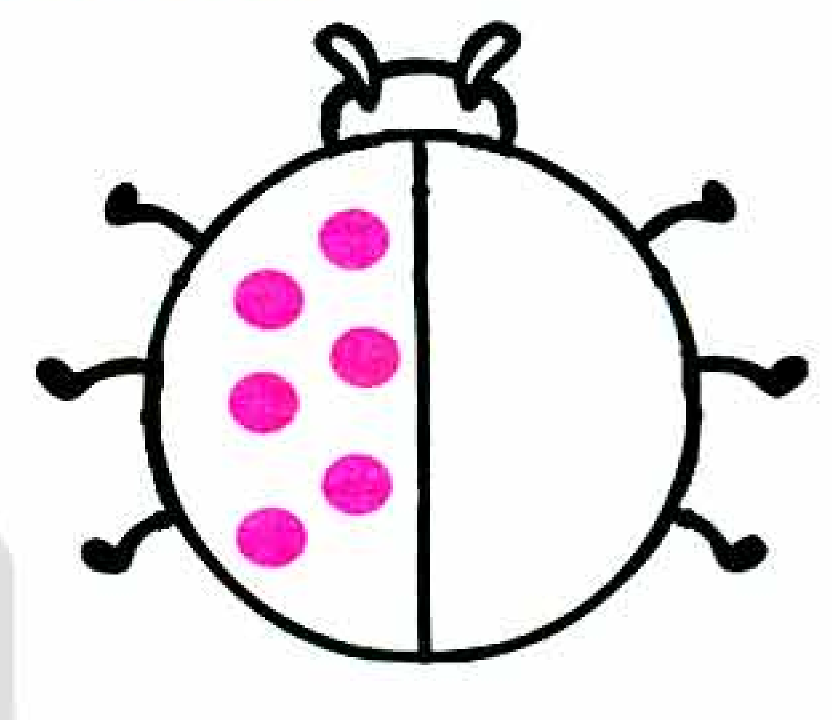


Complete to get the double of each number

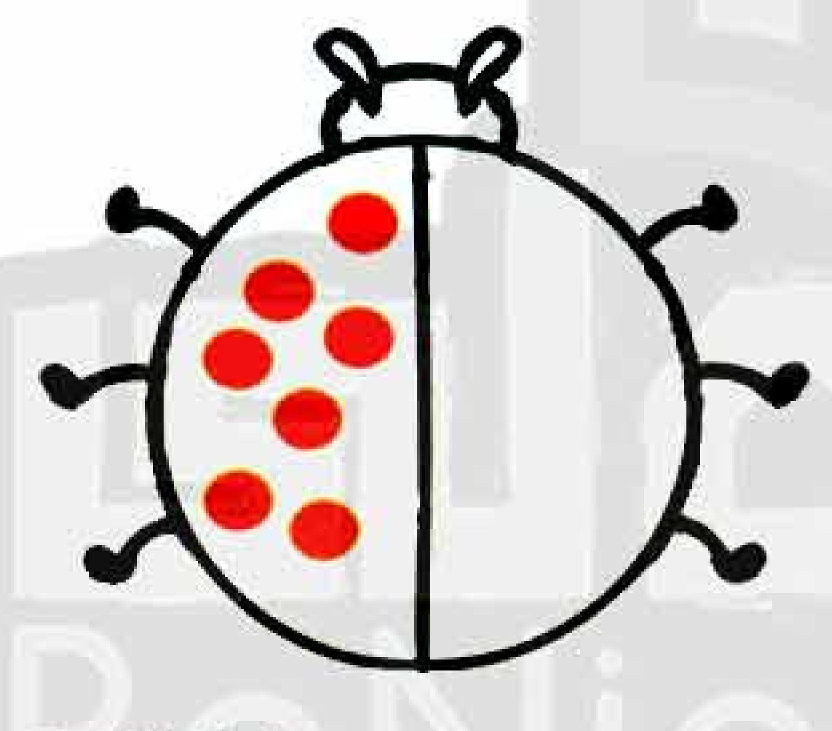
Ladybird Doubles



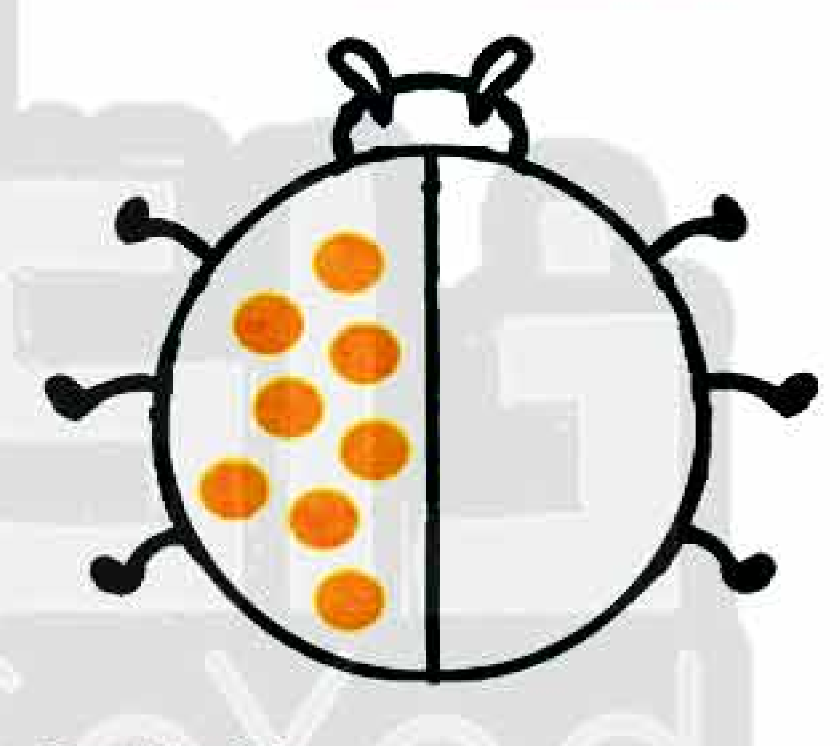
Double 5 is ________________



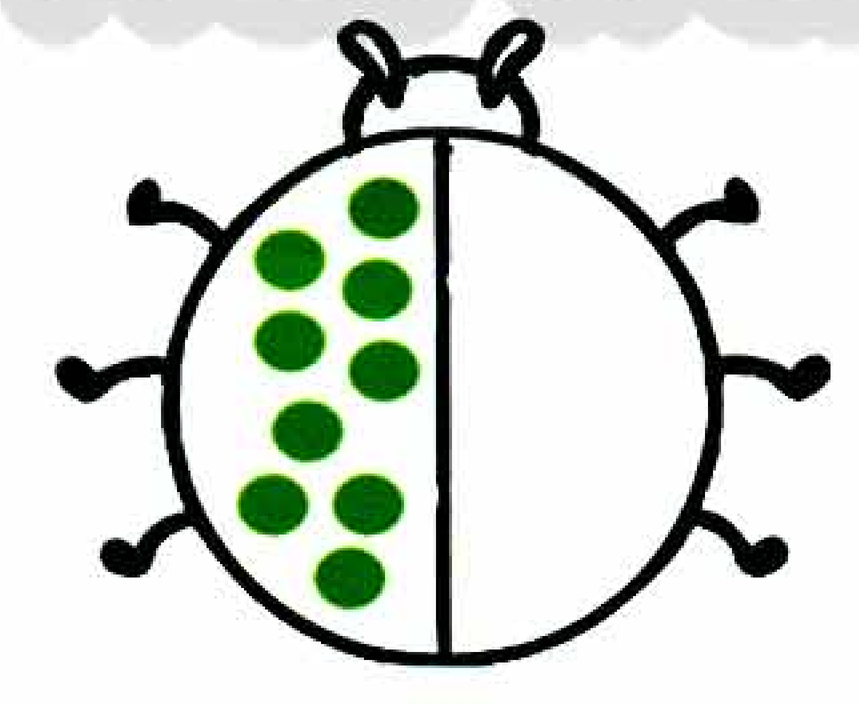
Double 6 is ________________



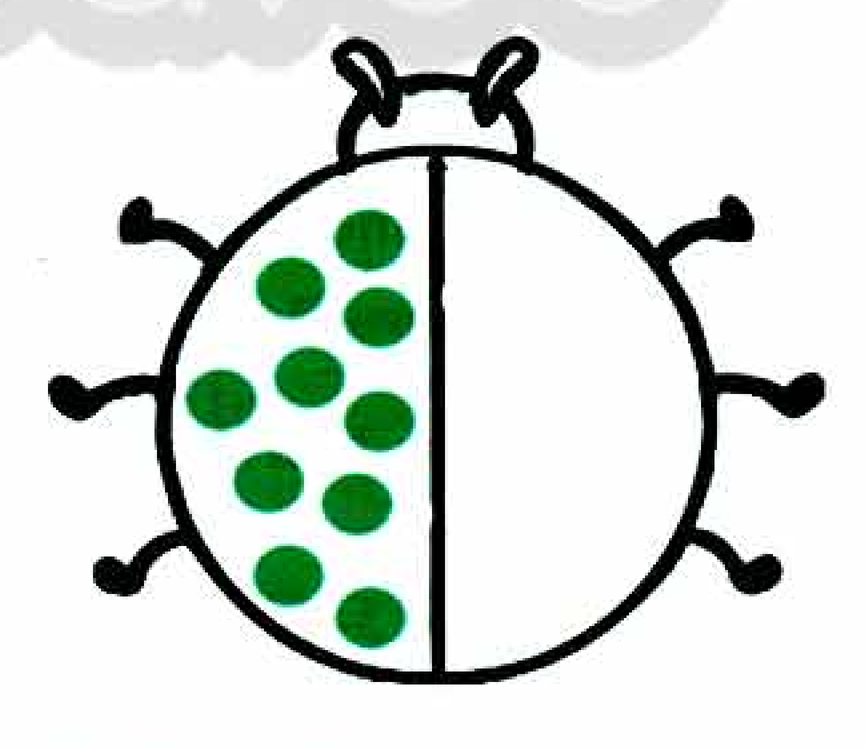
Double 7 is ________________



Double 8 is ________________

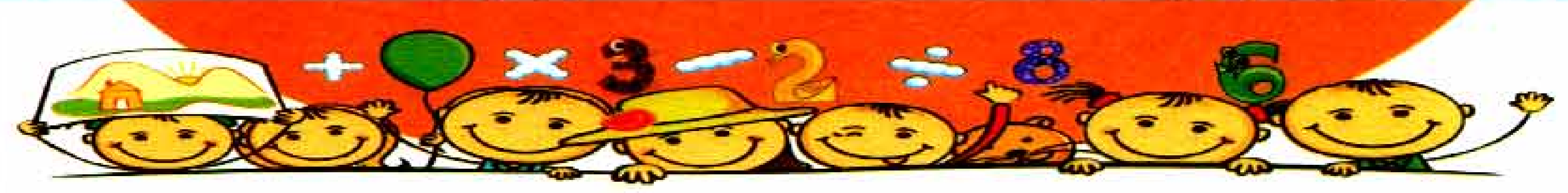


Double 9 is ________________



Double 10 is ________________





Dice Doubles

Write the number sentence for each double .

$1+1=$ ______

$2+2=$ ______

$3+3=$ ______

$4+4=$ ______

$5+5=$ ______





Butterfly Doubles

 Write the number sentence for each double .



6+6=________



7+7=________



8+8=________



9+9=________



10+10=_____



Ladybird Doubles

Complete to make doubles in each of the following .

Double 1 is ________________

Double 2 is ________________

Double 3 is ________________

Double 4 is ________________

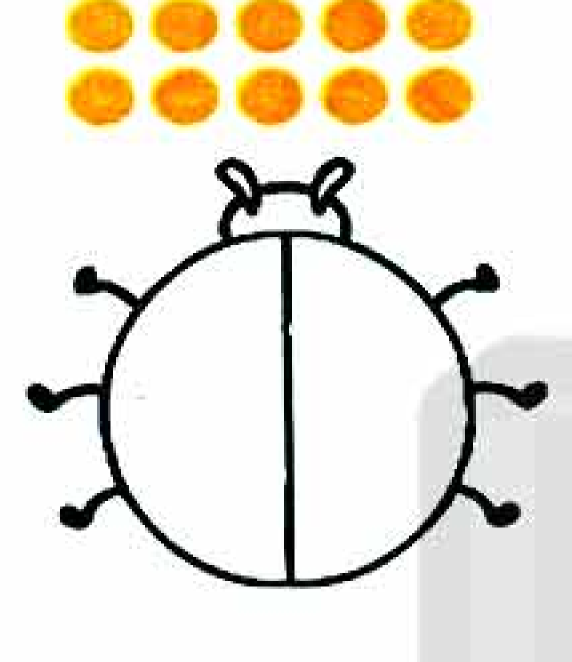
Double 5 is ________________



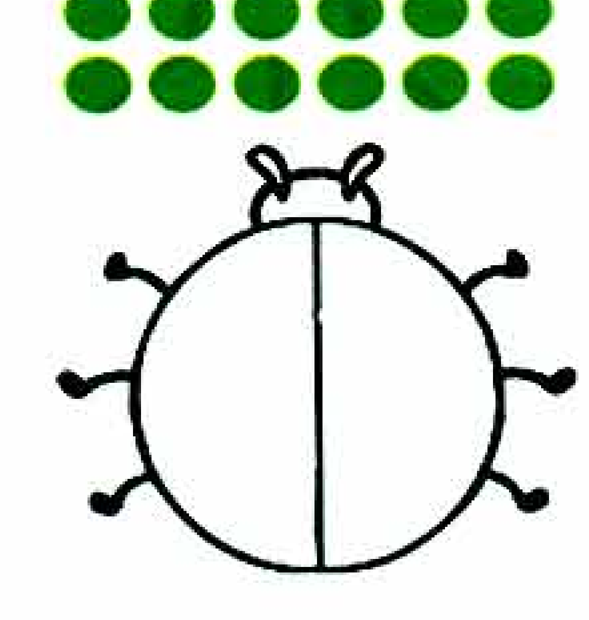
Ladybird Halving to 20



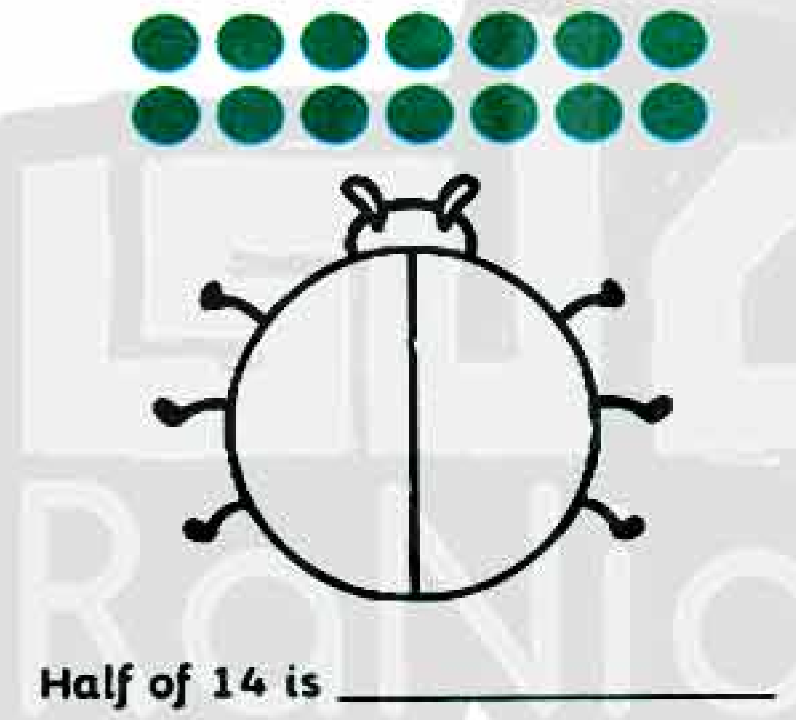
Draw half of the spots in one side and the other half on the other side .



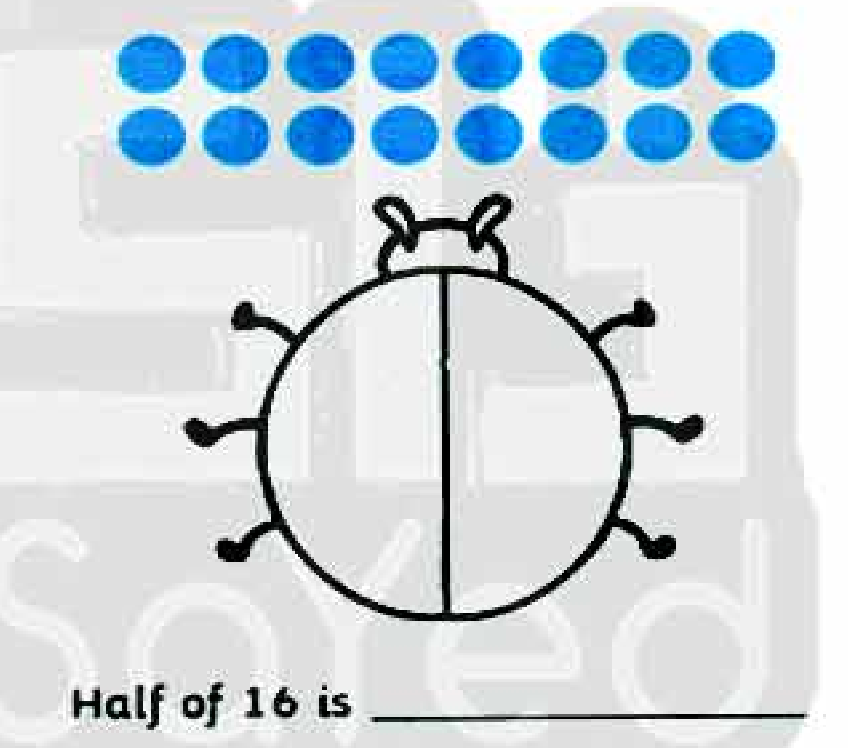
Half of 10 is ____________



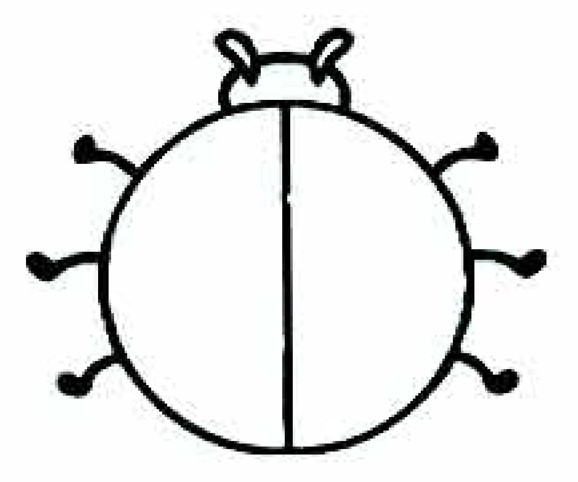
Half of 12 is ____________



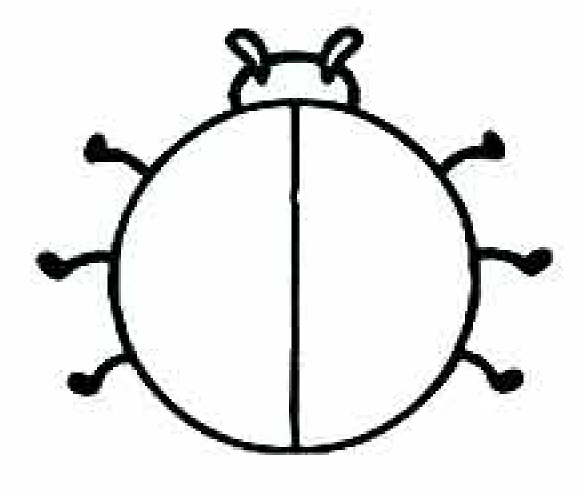
Half of 14 is ____________



Half of 16 is ____________

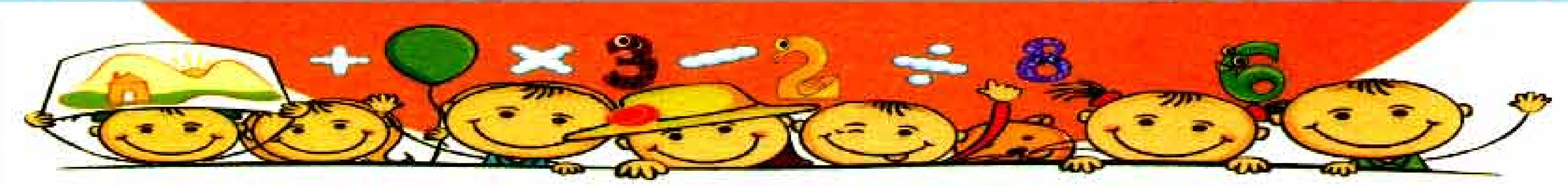


Half of 18 is ____________



Half of 20 is ____________

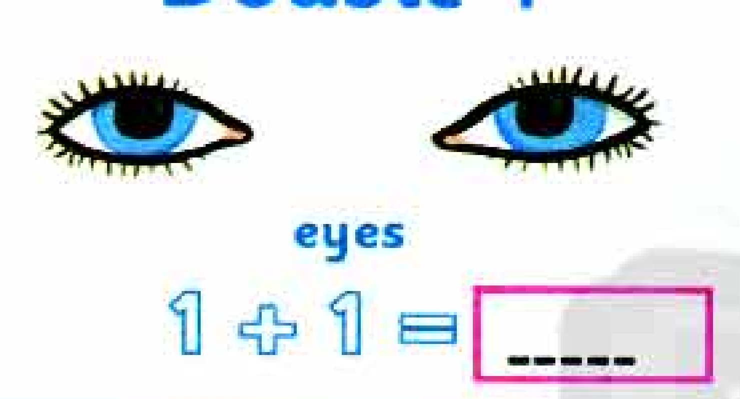




Doubling Facts


Get the double of each of the following .

Double 1



eyes

1 + 1 = -----

Double 2



trainers

2 + 2 = -----

Double 3



wheels

3 + 3 = -----

Double 4



legs

4 + 4 = -----

Double 5



toes

5 + 5 = -----

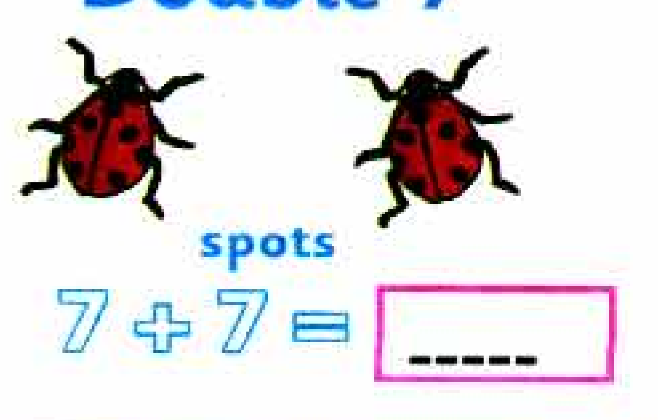
Double 6



legs

6 + 6 = -----

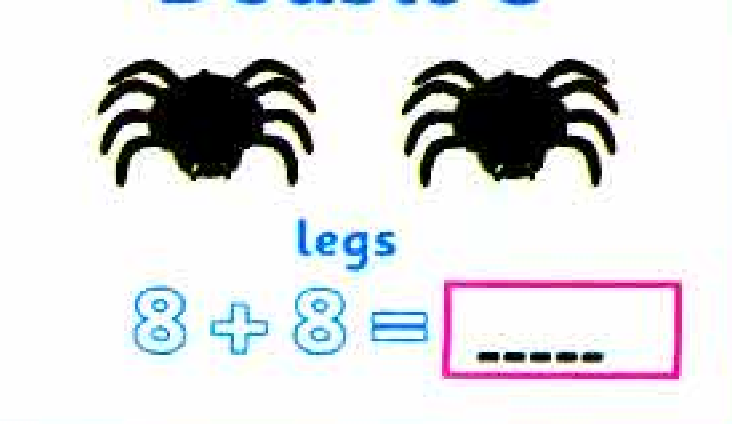
Double 7



spots

7 + 7 = -----

Double 8

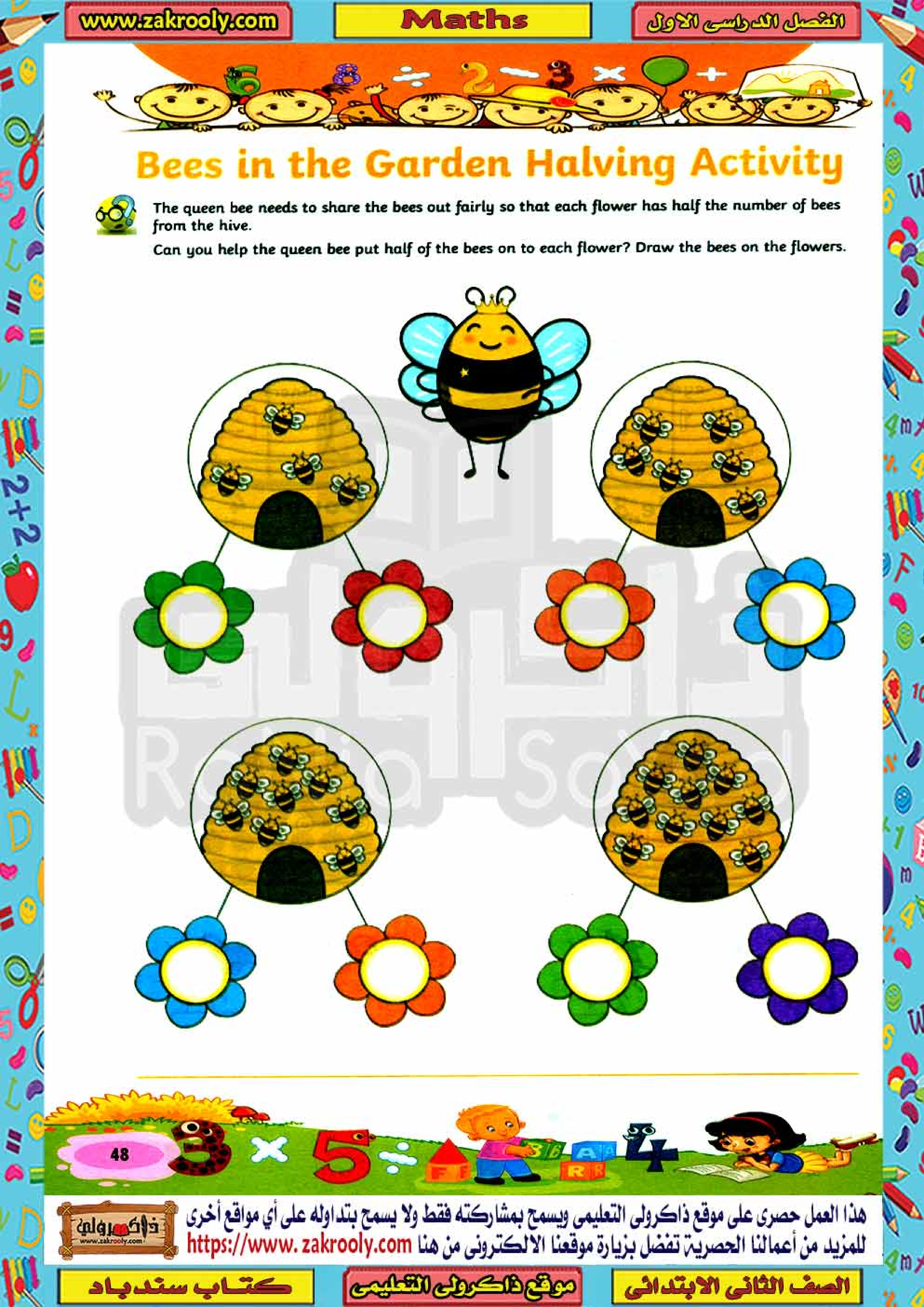


legs

8 + 8 = -----







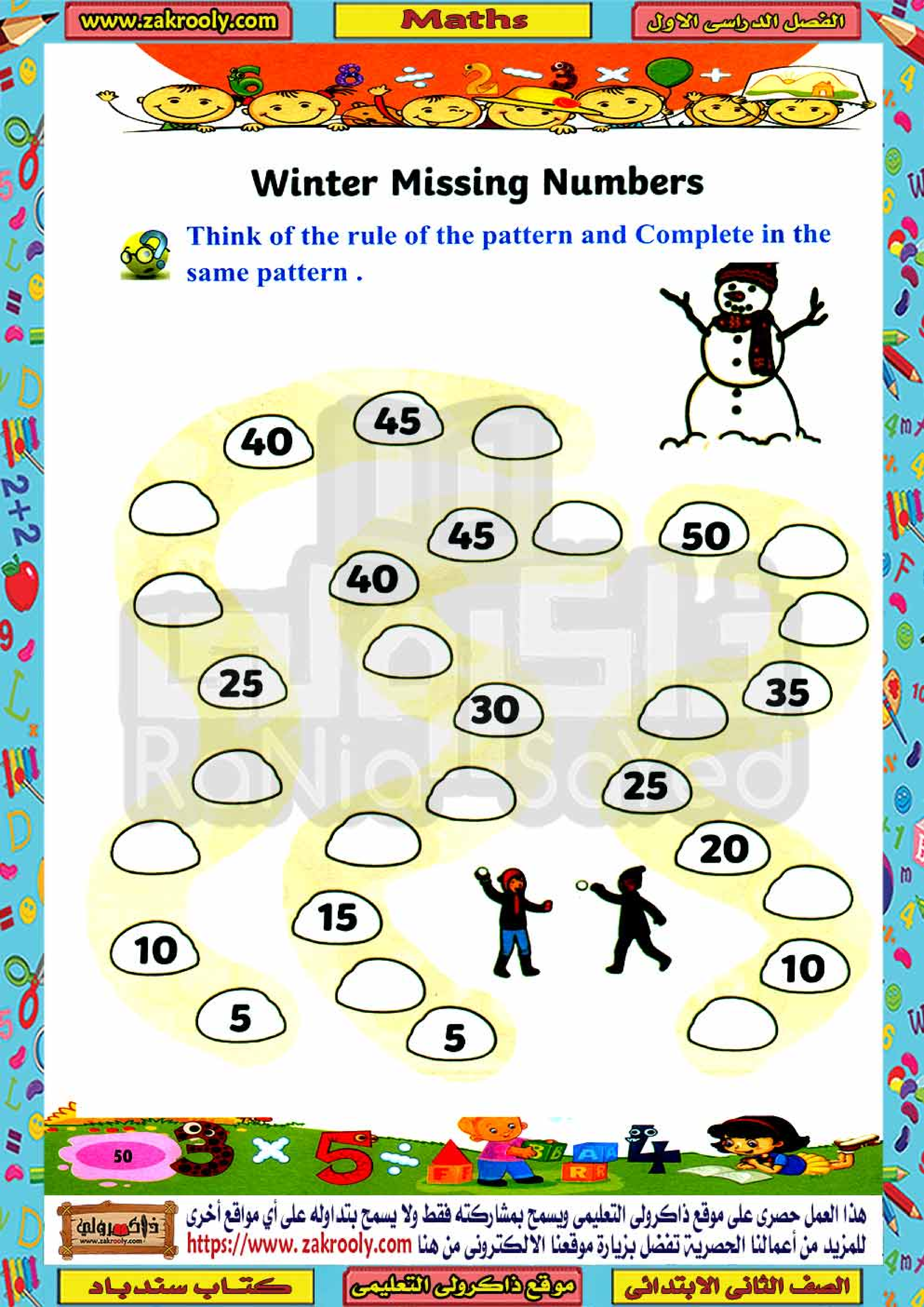
Bees in the Garden Halving Activity

The queen bee needs to share the bees out fairly so that each flower has half the number of bees from the hive.

Can you help the queen bee put half of the bees on to each flower? Draw the bees on the flowers.

Fill in the missing numbers





Winter Missing Numbers

Think of the rule of the pattern and Complete in the same pattern .



Figure out the pattern in each set below and write the missing number .

16 ___ 20 ___ 24 ___

39 ___ 41 ___ 43 ___

44 ___ 46 ___ 48 ___

55 ___ 63 ___ 71 ___



Complete the number sequence in each of the following .

	9	10

	13	14

0		2

6		8

14		16

18		20

3	4	

8		10

17		19

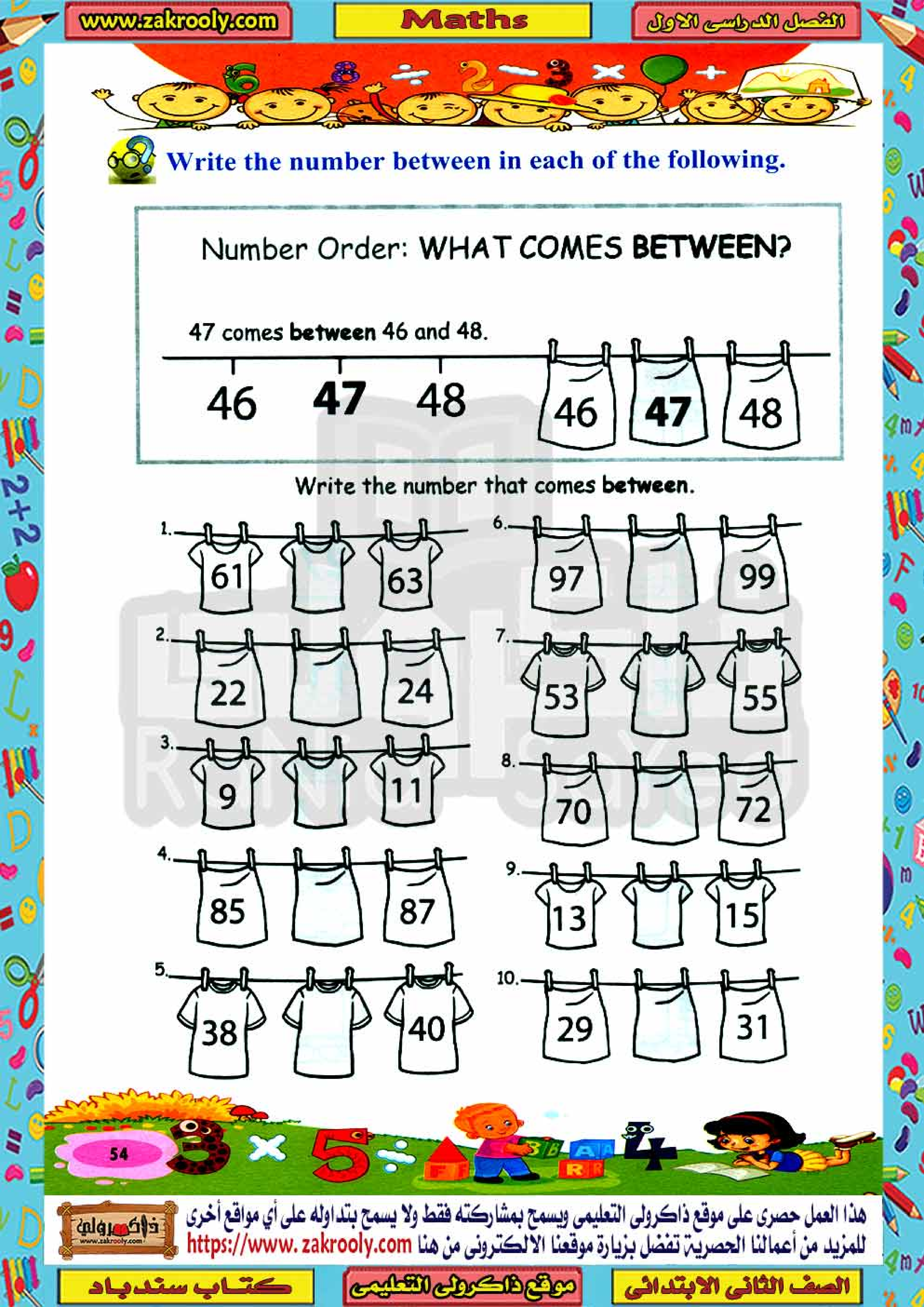
	1	2



Land the Plane

Help Mr. plan to arrive at the correct time by Completing the missing number in each sequence .

18		16		14	
31			28	27	
15				11	
28					
37					32
50					



Write the number between in each of the following.

Number Order: WHAT COMES **BETWEEN?**

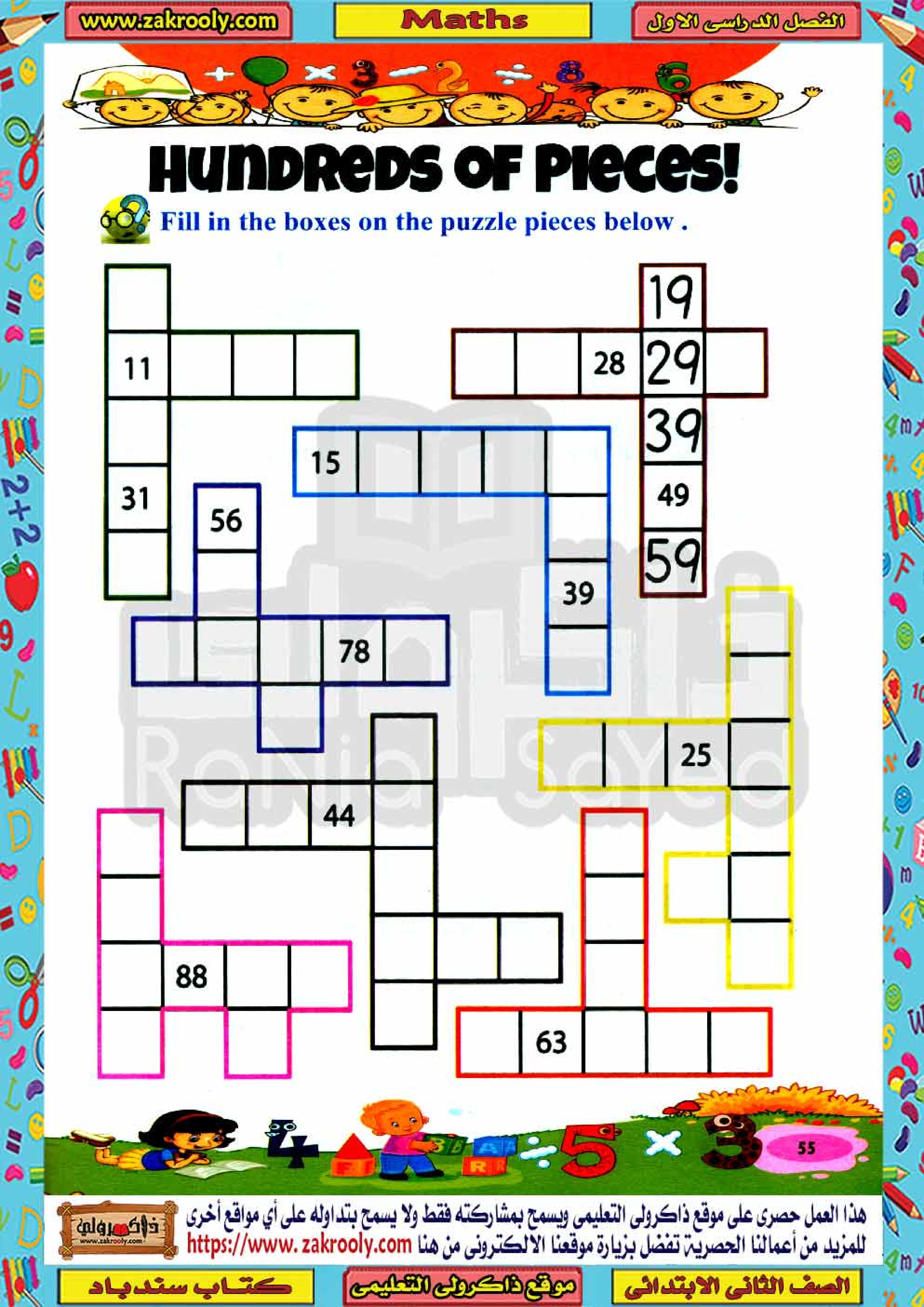
47 comes **between** 46 and 48.

46 **47** 48

46 **47** 48

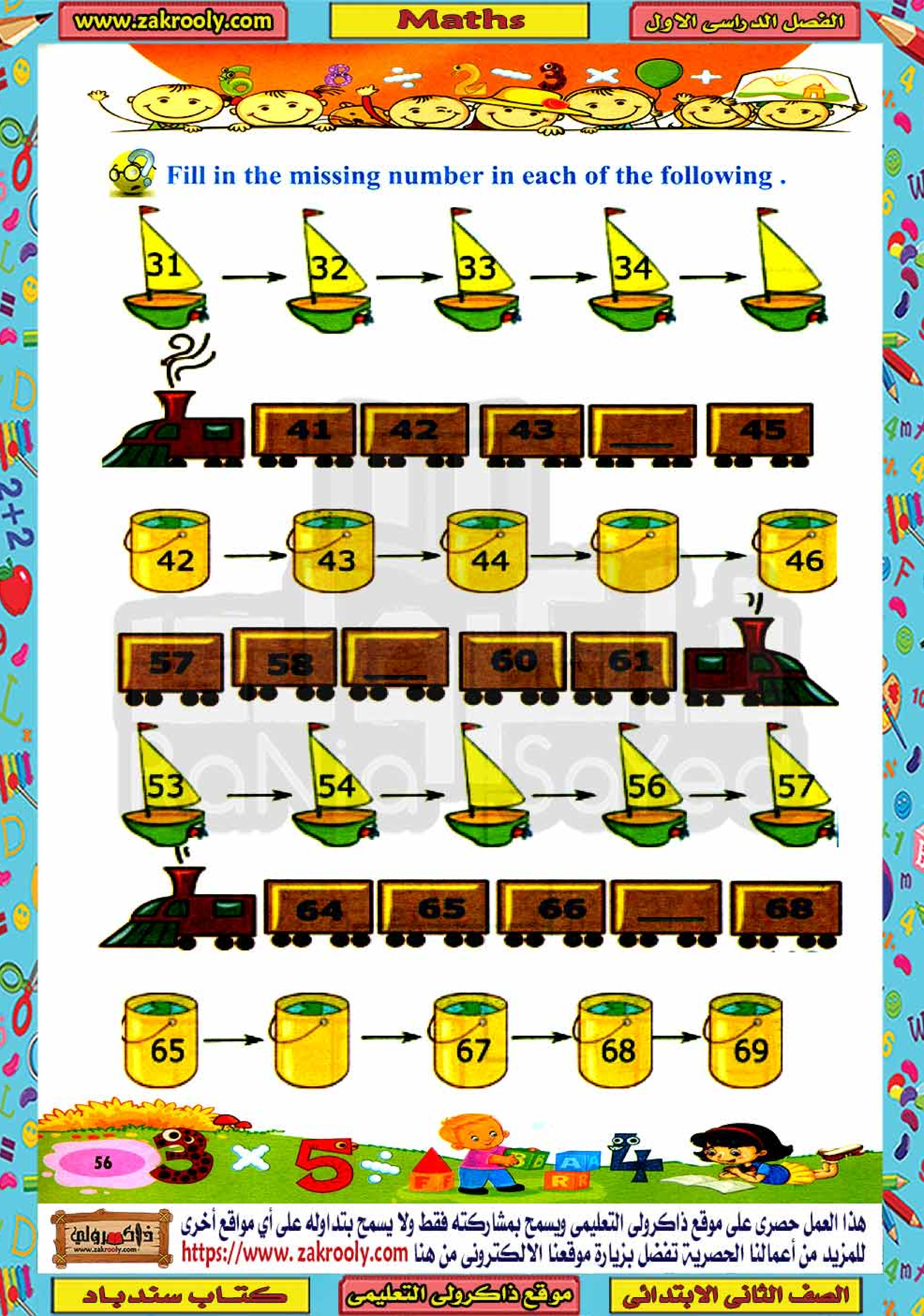
Write the number that comes **between**.

1. 61 ___ 63
2. 22 ___ 24
3. 9 ___ 11
4. 85 ___ 87
5. 38 ___ 40
6. 97 ___ 99
7. 53 ___ 55
8. 70 ___ 72
9. 13 ___ 15
10. 29 ___ 31



Hundreds of Pieces!

Fill in the boxes on the puzzle pieces below .

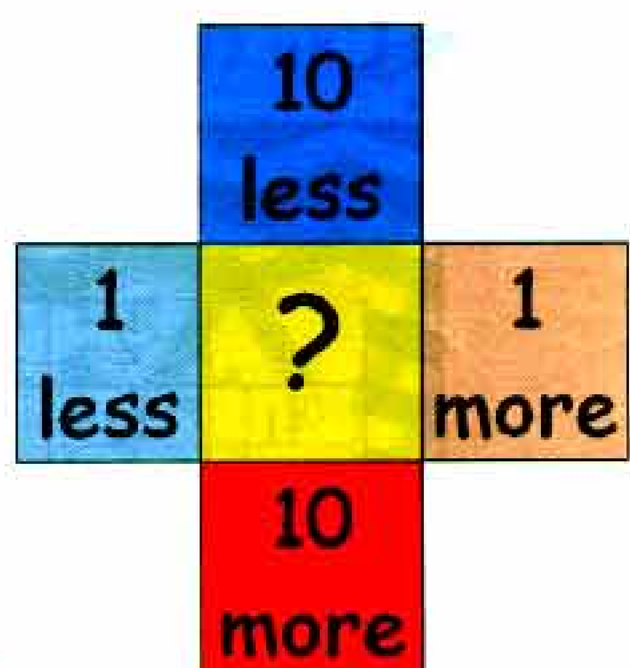

Fill in the missing number in each of the following .
31
32
33
34
41
42
43
___
45
42
43
44
46
57
58
___
60
61
53
54
56
57
64
65
66
___
68
65
67
68
69







Mental Math



Addition using hundreds Chart

A word to the parents

By the end of this lesson your child should be able to

- Add or subtract using number line and 100 chart .

Using a Hundred Chart

Finding 10 more or 10 less

To find 10 more
move down 1 square.

To find 10 less
move up 1 square.

31	32	33	34	35
41	42	43	44	45
51	52	53	54	55

1	2	3	4	5	6	7	8	9	10
1'	12	13	14	15	16	17	18	19	20
2'	22	23	24	25	26	27	28	29	30
31	32	33	[illegible]	35	36	37	38	39	40
4'	42	43	[illegible]	[illegible]	46	47	48	49	50
5'	52	53	54	[illegible]	[illegible]	[illegible]	[illegible]	59	60
6'	62	63	64	[illegible]	[illegible]	[illegible]	[illegible]	69	70
7'	72	73	74	75	[illegible]	[illegible]	[illegible]	[illegible]	80
8'	82	83	84	85	[illegible]	[illegible]	[illegible]	89	90
9'	92	93	94	95	96	[illegible]	98	99	100





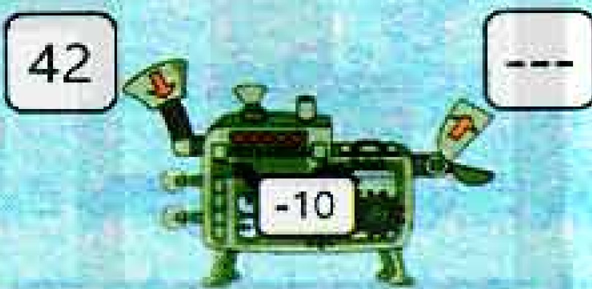
Use the number chart to add or subtract 10 .

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

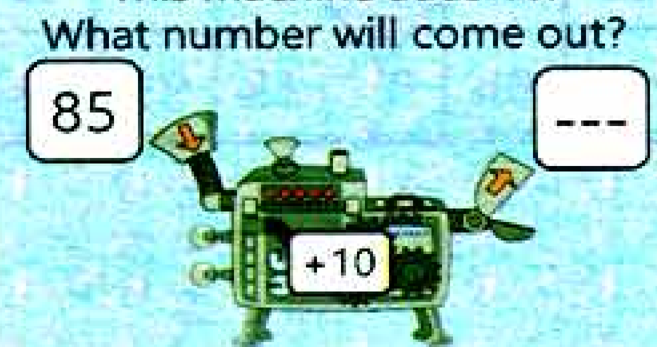


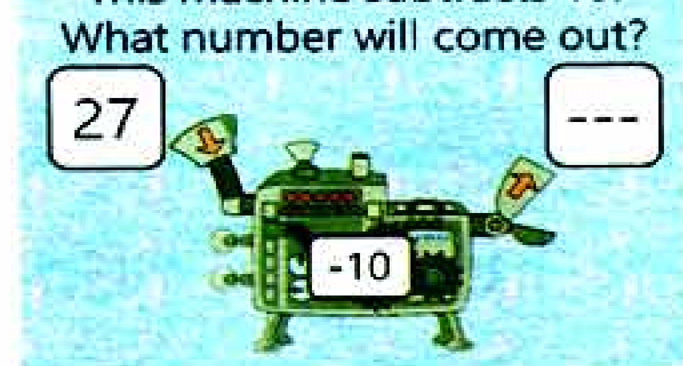














Finding 10 more or 10 less

Use the number chart to add or subtract 10 .

100 chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

10 more

17 → ----
26 → ----
58 → ----
89 → ----
32 → ----
12 → ----
39 → ----

10 less

---- ← 65
---- ← 44
---- ← 19
---- ← 23
---- ← 40
---- ← 77
---- ← 17

Mixed

5 → ----
---- ← 13
---- ← 76
90 → ----
47 → ----
---- ← 35
10 → ----





Use the 100 chart to find each sum .

HUNDREDS CHART

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

To add 10 to a number, move down on the hundred chart one space.

To add 20 to a number, move down two spaces.

To add 30 to a number, move down three spaces.

To add 40 to a number, move down four spaces.

To add 50 to a number, move down five spaces.

53 + 10 = ___	32 + 10 = ___	68 + 10 = ___	21 + 10 = ___	74 + 10 = ___
73 + 20 = ___	30 + 20 = ___	62 + 20 = ___	14 + 20 = ___	28 + 20 = ___
53 + 30 = ___	25 + 30 = ___	37 + 30 = ___	44 + 30 = ___	19 + 30 = ___
14 + 40 = ___	37 + 40 = ___	49 + 40 = ___	52 + 40 = ___	25 + 40 = ___
11 + 50 = ___	44 + 50 = ___	37 + 50 = ___	26 + 50 = ___	23 + 50 = ___









Use the 100 chart to find each difference .

HUNDREDS CHART

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

⟹ To subtract 10 from a number, move up on the hundred chart one space.

To subtract 20 to a number, move up two spaces.

To subtract 30 to a number, move up three spaces.

To subtract 40 to a number, move up four

53 - 10 = ___	32 - 10 = ___	68 - 10 = ___	21 - 10 = ___	74 - 10 = ___
73 - 20 = ___	30 - 20 = ___	62 - 20 = ___	54 - 20 = ___	28 - 20 = ___
53 - 30 = ___	65 - 30 = ___	37 - 30 = ___	44 - 30 = ___	79 - 30 = ___
84 - 40 = ___	67 - 40 = ___	49 - 40 = ___	52 - 40 = ___	95 - 40 = ___
91 - 50 = ___	64 - 50 = ___	57 - 50 = ___	76 - 50 = ___	83 - 50 = ___





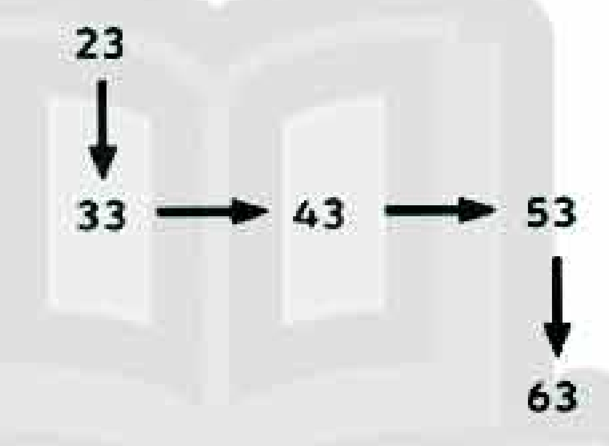


Lost in a Maze



I can find 10 more or 10 less than a given number

Cody needs to find his way to the golden cup. Choose a number from the top of the grid . Count 10 more or 10 less from the number each time , linking the numbers



18	48	23	34	17	37
68	58	53	29	27	17
76	52	56	47	37	37
56	22	67	57	81	66
🏆	87	77	36	45	56
63	99	16	46	60	56







Counting on mental math strategy by using number chart .



A word to the parents

By the end of this lesson your child should be able to

- Add or subtract using Counting on method .

Example 1

13 + 6

Remember

In addition move to the right

(Forwards)

13 + 6 = 19

Start from the bigger number 13 and then move 6 steps to the right .

Numbers 1–100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Example 2

29 - 6

Remember

In Subtraction move to the left

(Backwards)

29 – 6 = 23

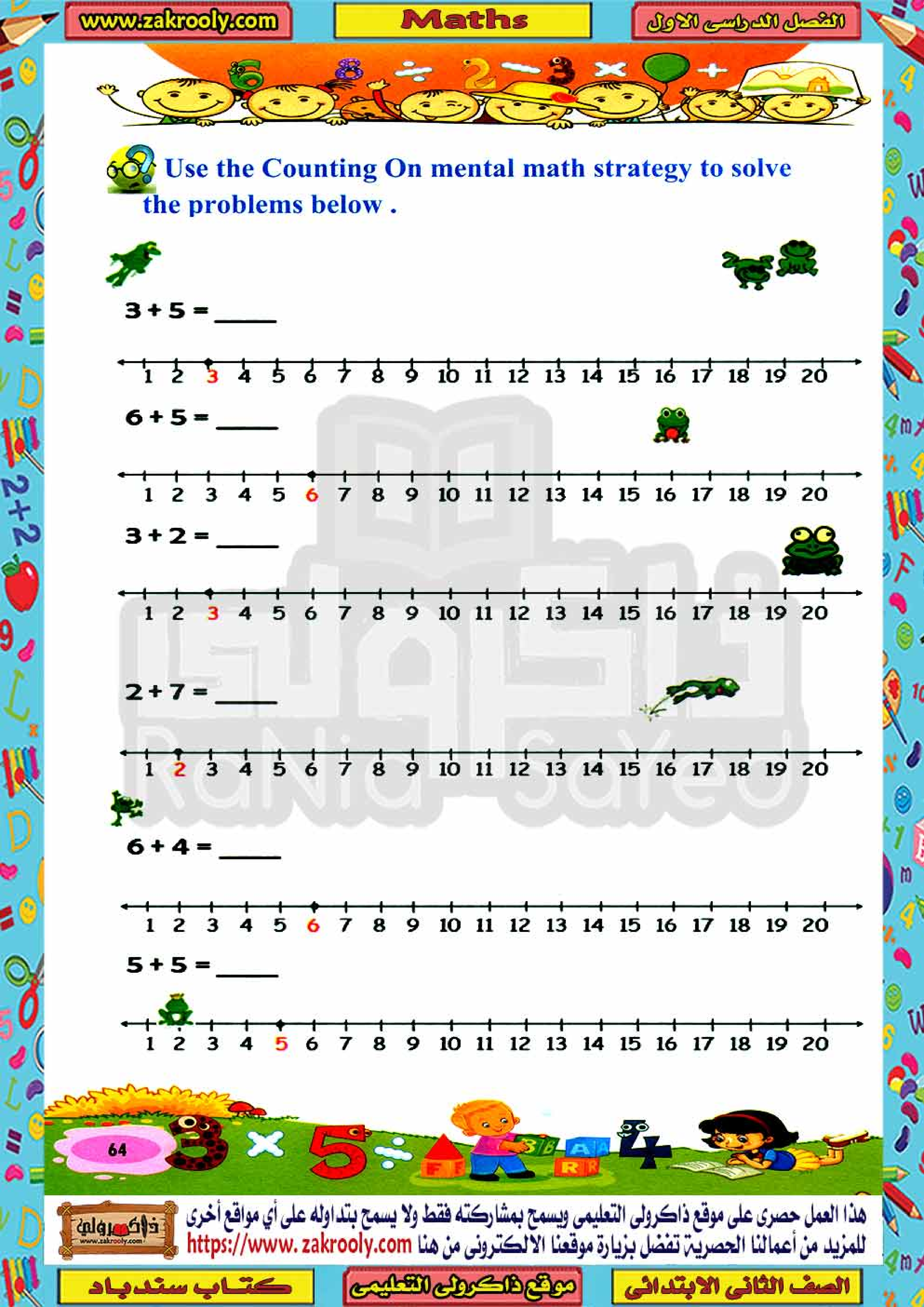
Start from the bigger number 29 and then move 6 steps to the left .

Numbers 1–100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30





Use the Counting On mental math strategy to solve the problems below .

3 + 5 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

6 + 5 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

3 + 2 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

2 + 7 = _____

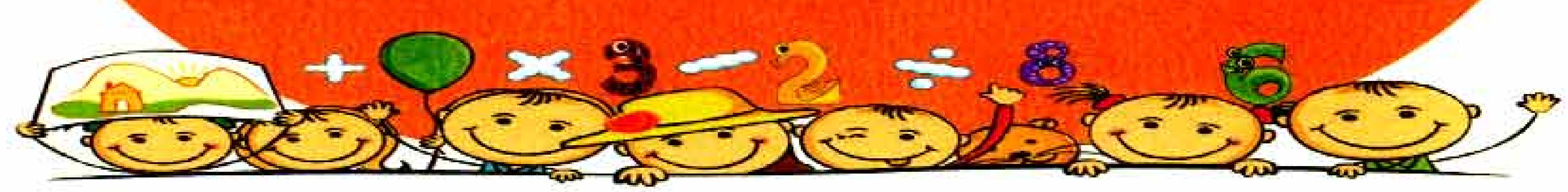
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

6 + 4 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

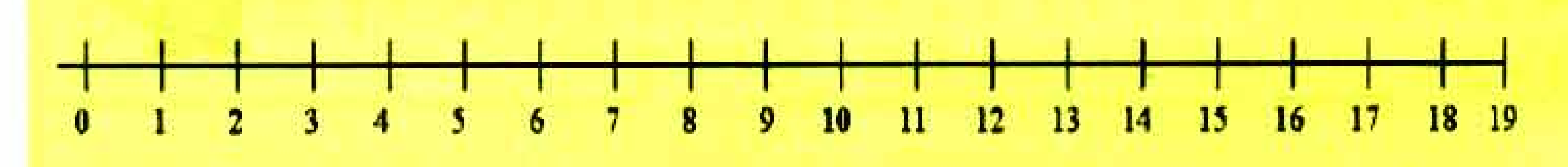
5 + 5 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

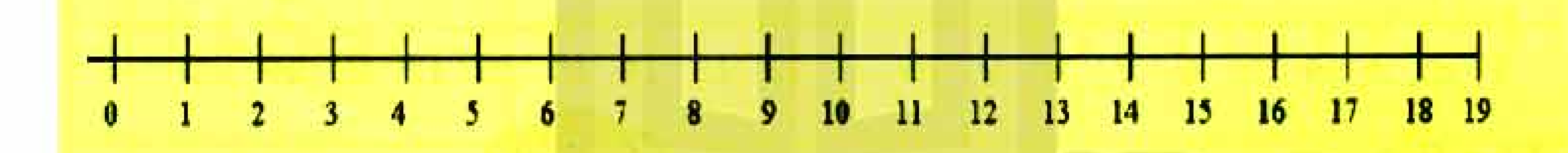


 Use the number line below to count back to subtract .

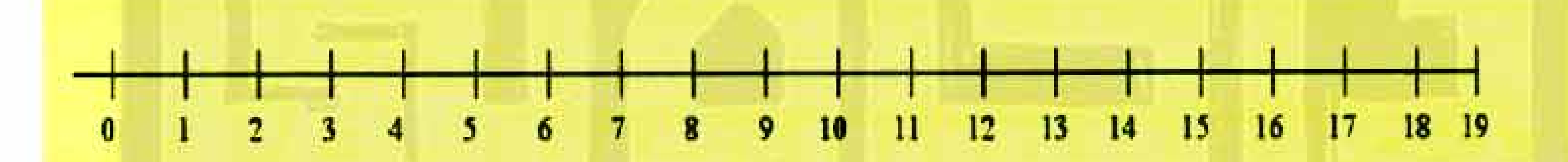
14 - 5 = ___



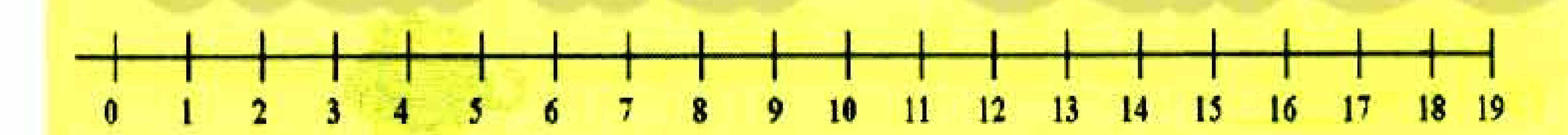
9 - 3 = ___



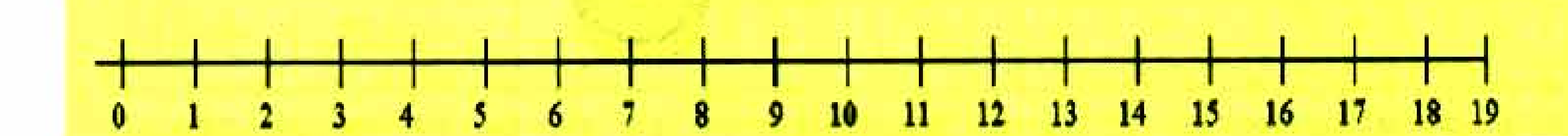
12 - 8 = ___



18 - 9 = ___



7 - 4 = ___







Use the number line below to count back to subtract







3 - 2 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

6 - 4 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

13 - 5 = _____



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

8 - 2 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



13 - 6 = _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

10 - 9 = _____



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20





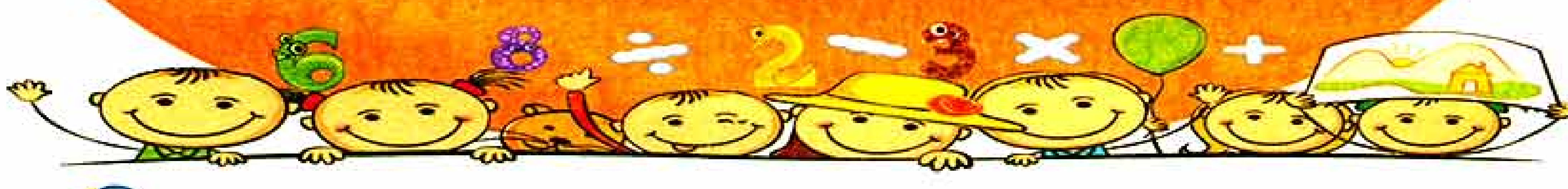


Use the number line below to count on to add.

6 + 5 = 11	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
9 + 4 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
11 + 5 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
8 + 3 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
2 + 12 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
10 + 7 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
4 + 15 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
16 + 1 =	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20









Use the 100 chart to find each sum .

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

23 + 11 = ---------

64 + 9 = ---------

54 + 13 = ---------

87 + 12 = ---------

61 + 21 = ---------

32 + 13 = ---------

56 + 9 = ---------

66 + 15 = ---------

41 + 7 = ---------

75 + 10 = ---------

86 + 8 = ---------







Use the 100 chart to find each sum .

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

64 - 14 = ---------

20 -9 = ---------

67 - 12 = ---------

77 - 7 = ---------

54 - 9 = ---------

36 – 10 = ---------

72 - 8 = ---------

89 - 21 = ---------

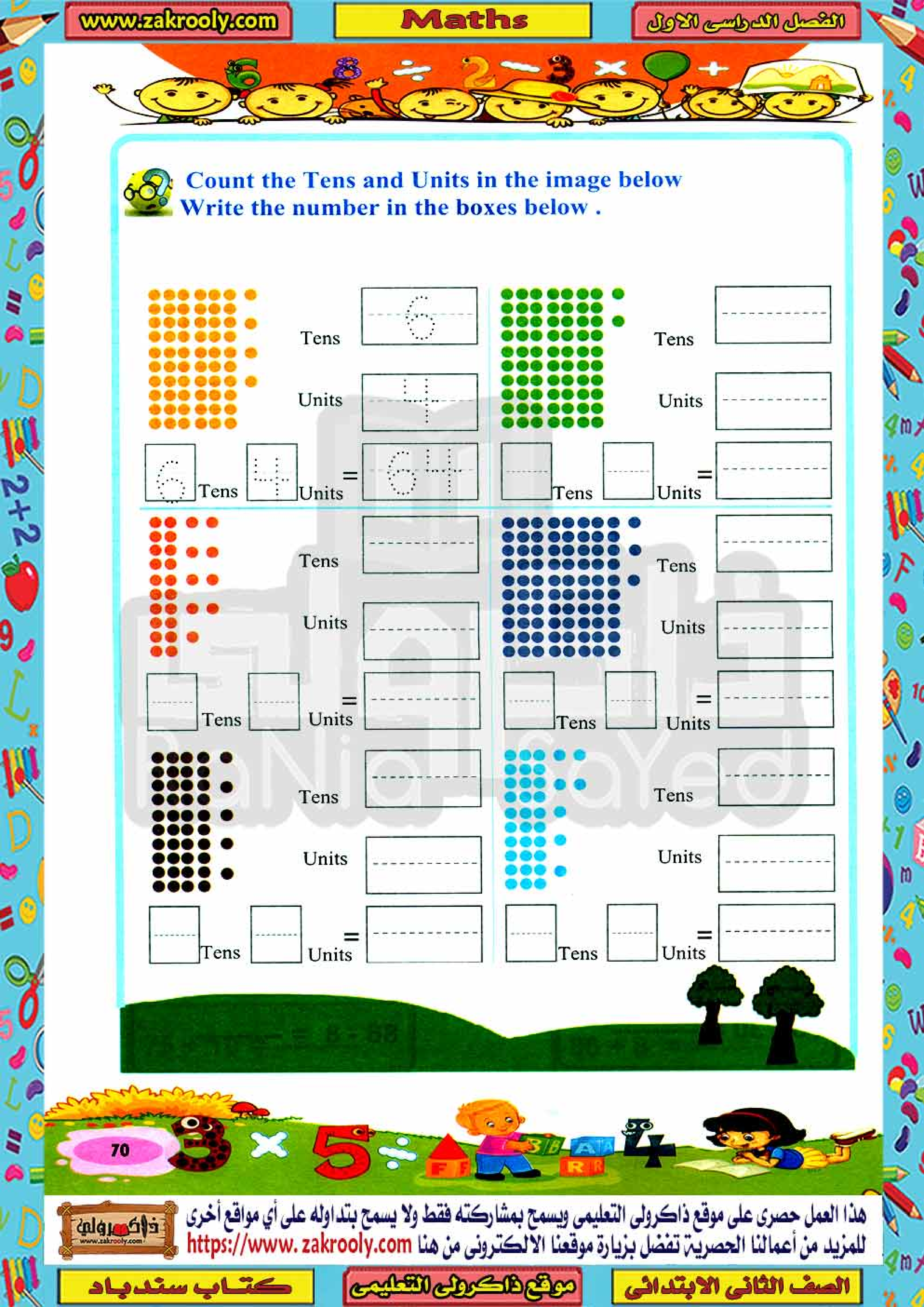
56 - 19 = ---------

75 - 30 = ---------

86 - 8 = ---------







Count the Tens and Units in the image below
Write the number in the boxes below .

Tens	6	
Units	4	
6 Tens	4 Units	= 64

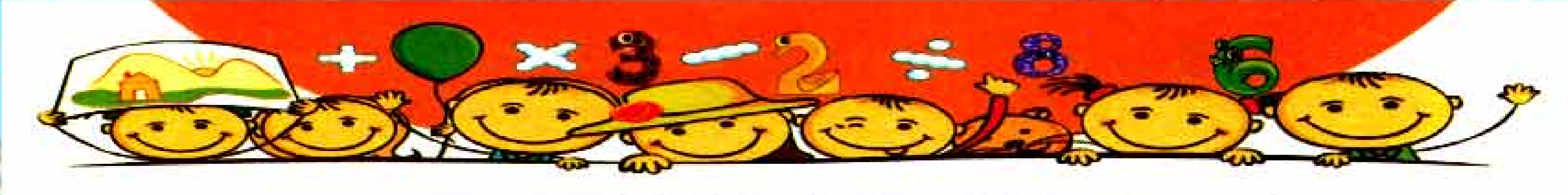
Tens		
Units		
Tens	Units	=

Tens		
Units		
Tens	Units	=

Tens		
Units		
Tens	Units	=

Tens		
Units		
Tens	Units	=

Tens		
Units		
Tens	Units	=



Numbers: Expanded Form



Write the expanded form of the numbers below .

23 = 20 + 3

55 = ___ + ___

17 = ___ + ___

89 = ___ + ___

96 = ___ + ___

42 = ___ + ___

74 = ___ + ___

68 = ___ + ___

31 = ___ + ___

26 = ___ + ___

Fill in the numbers to complete each addition sentence.

_____ = 10 + 2

_____ = 20 + 4

_____ = 40 + 8

_____ = 70 + 3

_____ = 90 + 1

_____ = 30 + 7

_____ = 50 + 6

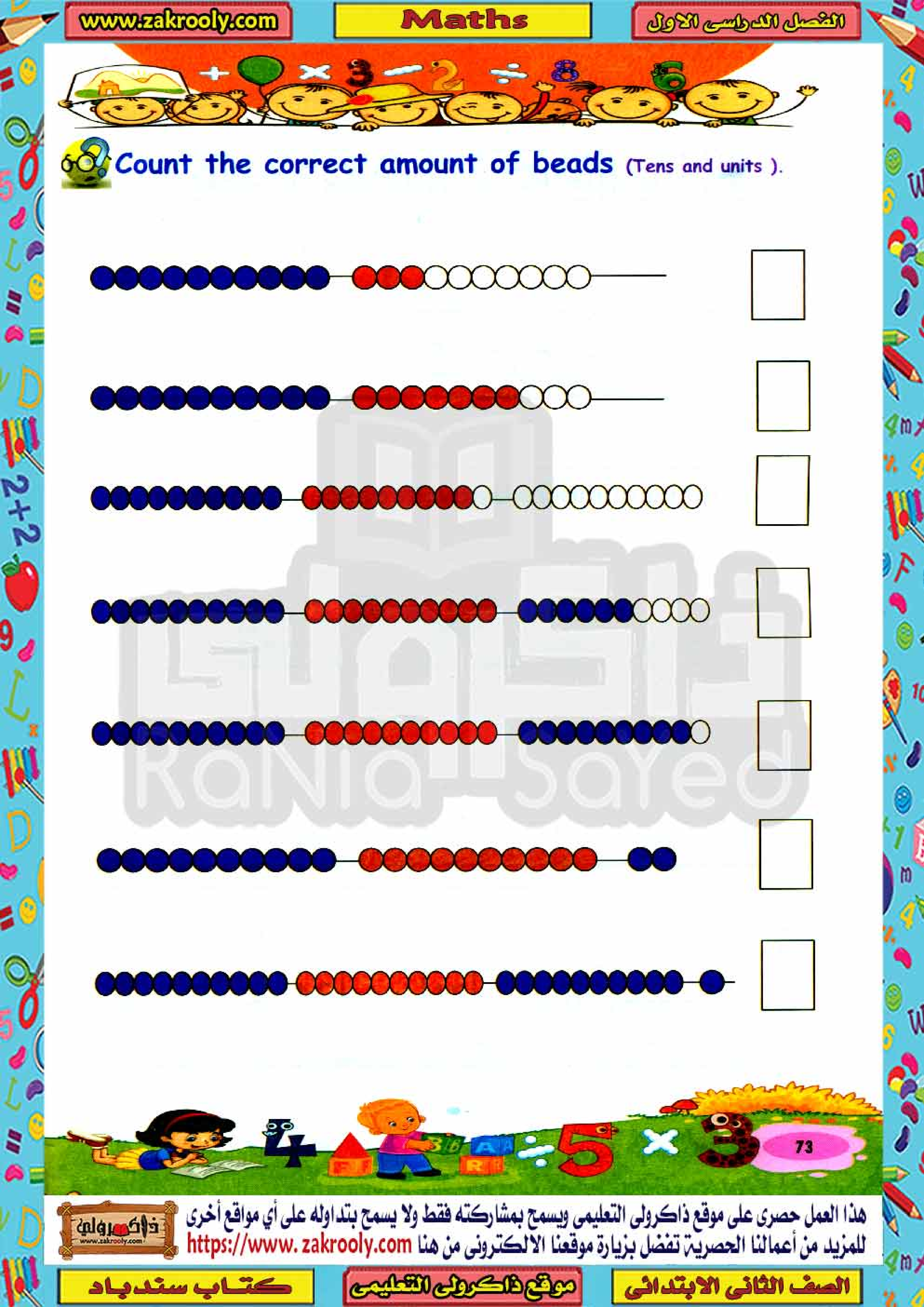
_____ = 60 + 9



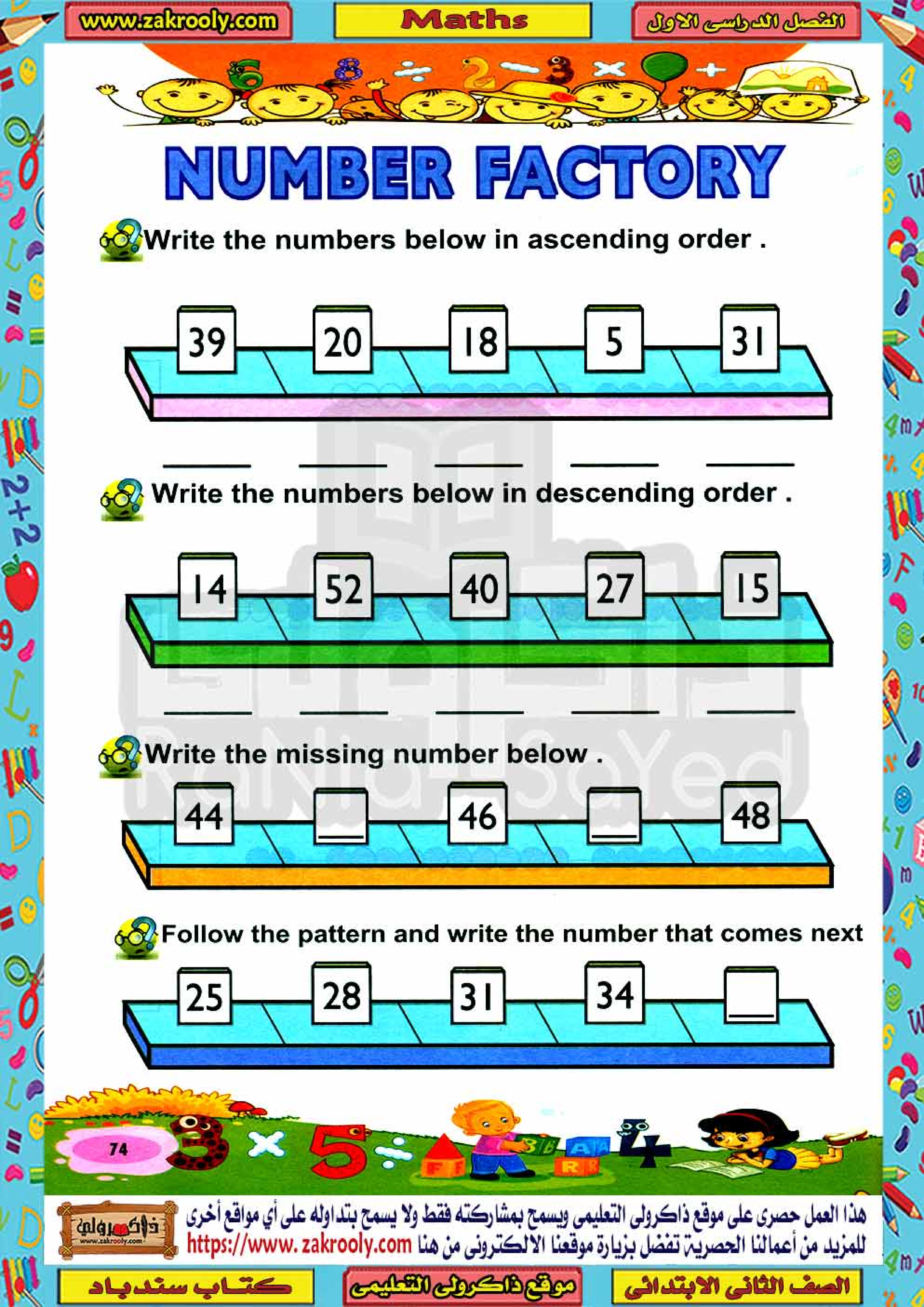
Quincy's Place Value

Quincy the Quail is having a hard time figuring out tens from units . Help him by writing each unit in the correct place value column

	Tens	Units
32	______	______
27	______	______
58	______	______
43	______	______
86	______	______
15	______	______
94	______	______
69	______	______



Count the correct amount of beads (Tens and units).



NUMBER FACTORY

Write the numbers below in ascending order .

39 20 18 5 31

_____ _____ _____ _____ _____

Write the numbers below in descending order .

14 52 40 27 15

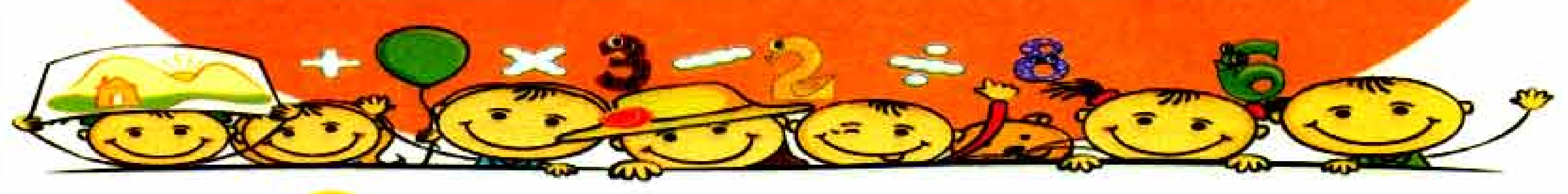
_____ _____ _____ _____ _____

Write the missing number below .

44 __ 46 __ 48

Follow the pattern and write the number that comes next

25 28 31 34 __



Components of number 10

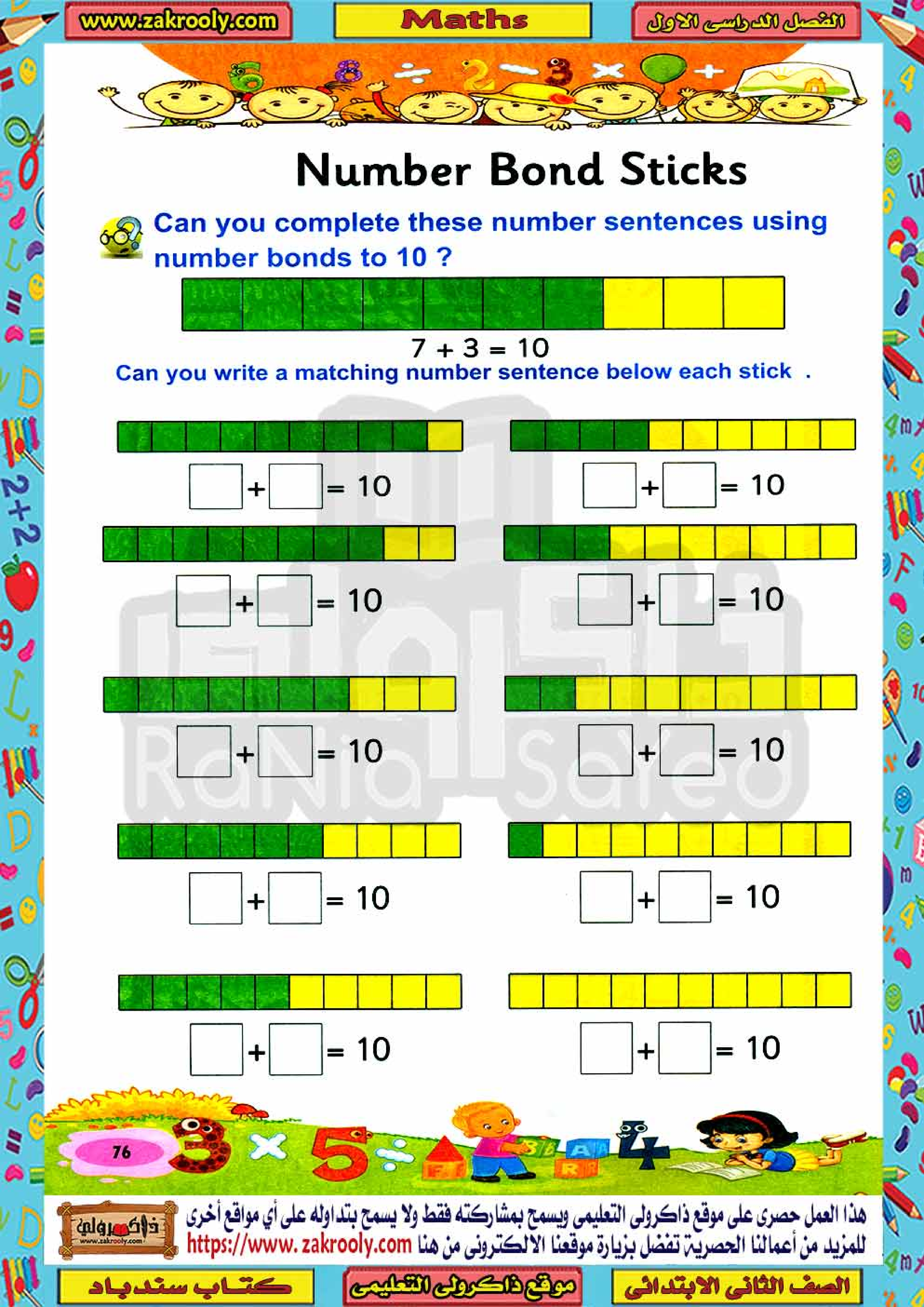
Rainbow to 10

0 1 2 3 4 5 10 5 6 7 8 9 10

0 + __ = 10	10 + __ = 10
1 + __ = 10	9 + __ = 10
2 + __ = 10	8 + __ = 10
3 + __ = 10	7 + __ = 10
4 + __ = 10	6 + __ = 10
5 + __ = 10	5 + __ = 10







Number Bond Sticks

Can you complete these number sentences using number bonds to 10 ?

7 + 3 = 10

Can you write a matching number sentence below each stick .

☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10

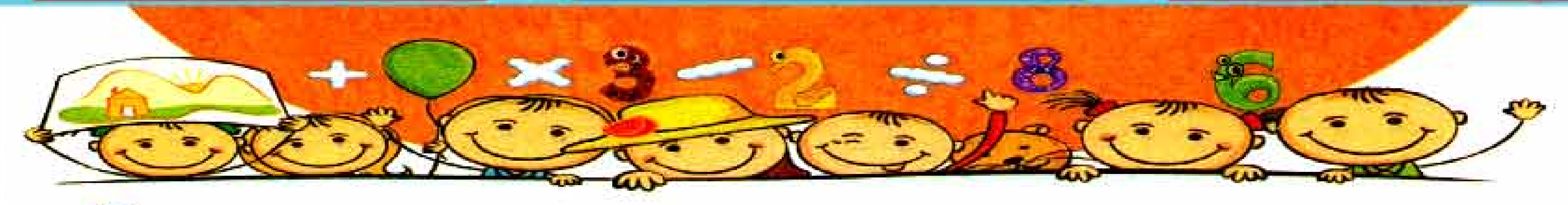
☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10

☐ + ☐ = 10



Compete the missing number to make bonds of 10 .

5 + ___ = 10

10 = 2 + ___

___ + 3 = 10

10 = ___ + 8

7 + ___ = 10



___ + 4 = 10

10 + ___ = 10





+ ? =

7 + ☐ = 10

+ ? =

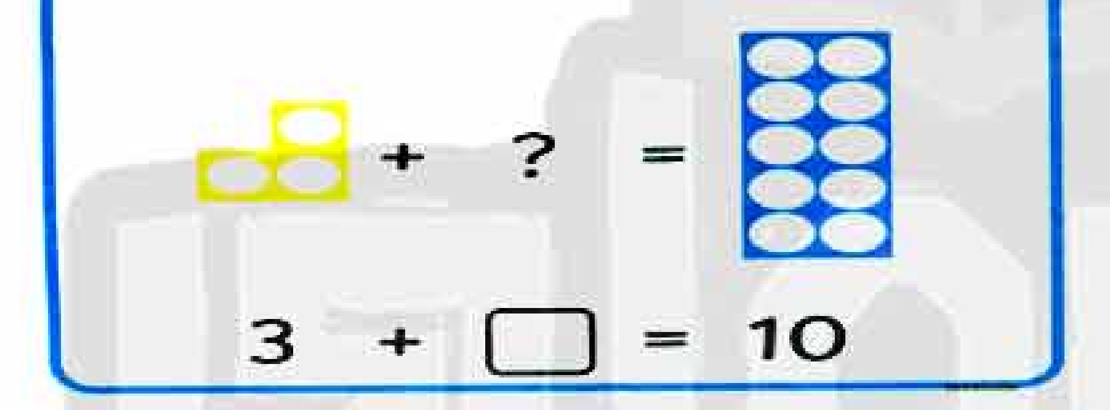
6 + ☐ = 10

+ ? =

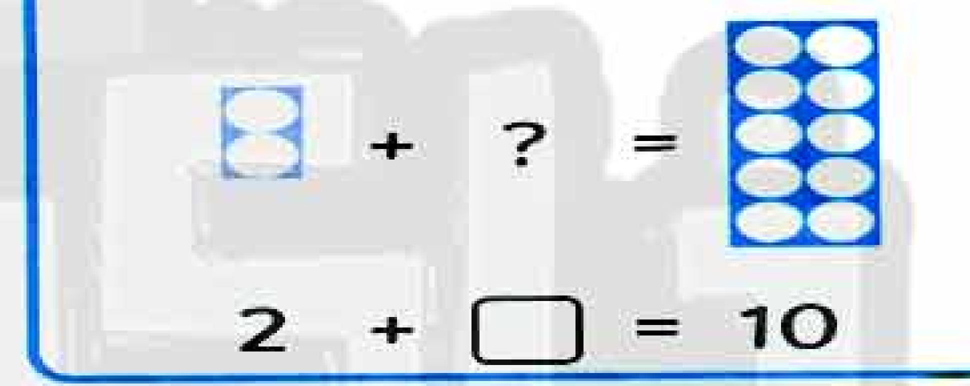
5 + ☐ = 10

+ ? =

4 + ☐ = 10



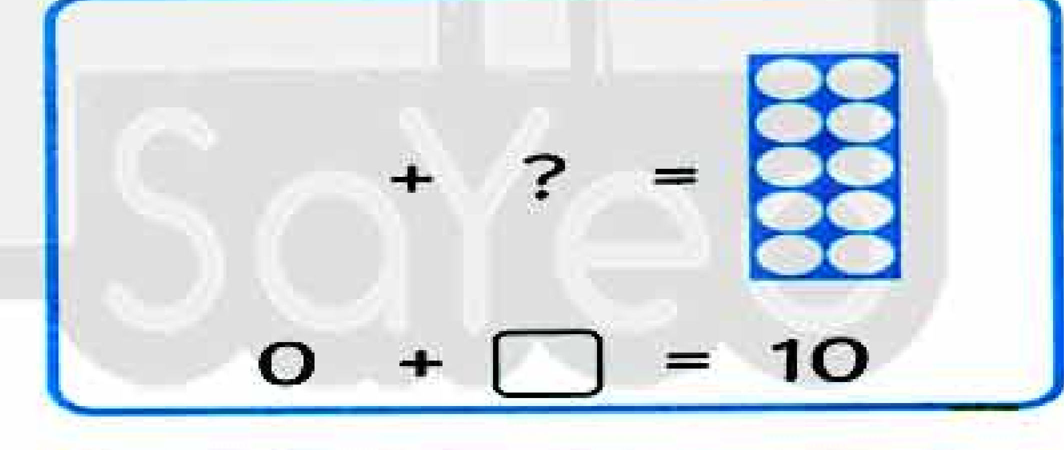
3 + ☐ = 10



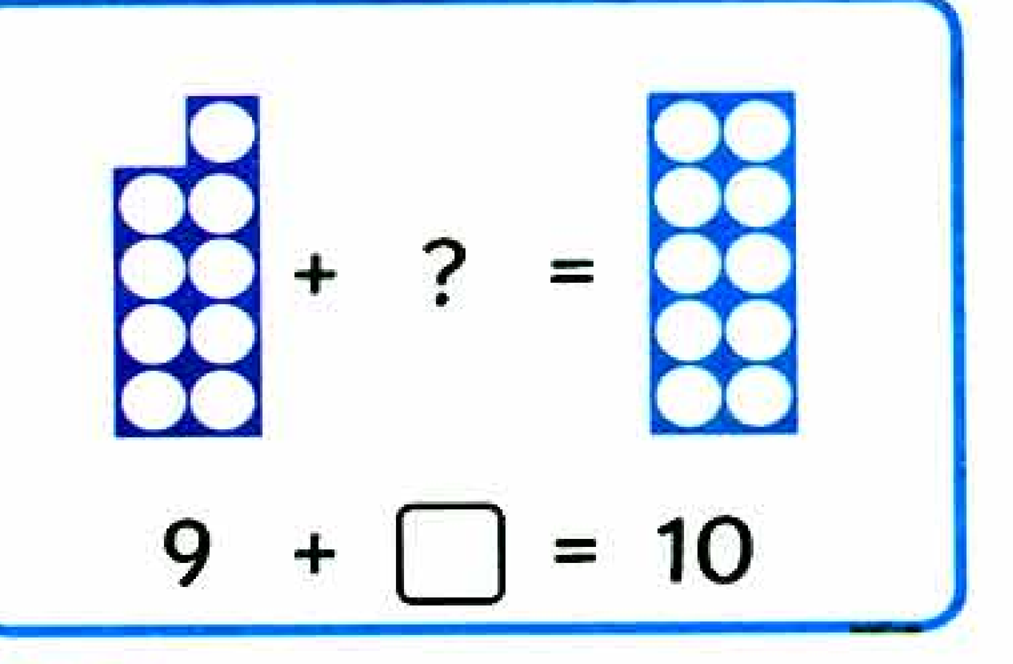
2 + ☐ = 10

+ ? =

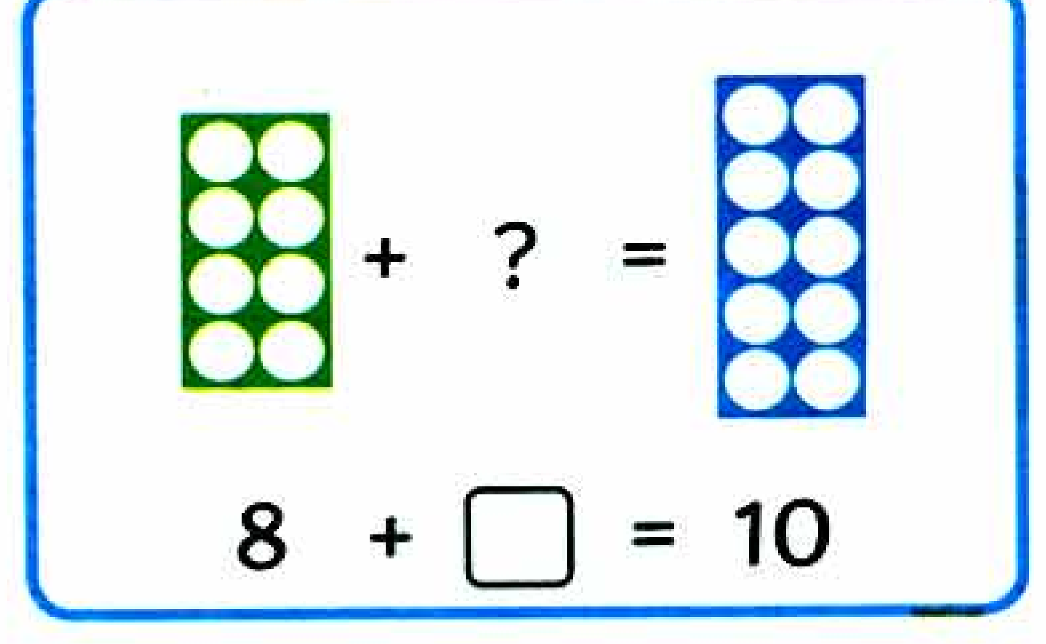
1 + ☐ = 10



0 + ☐ = 10

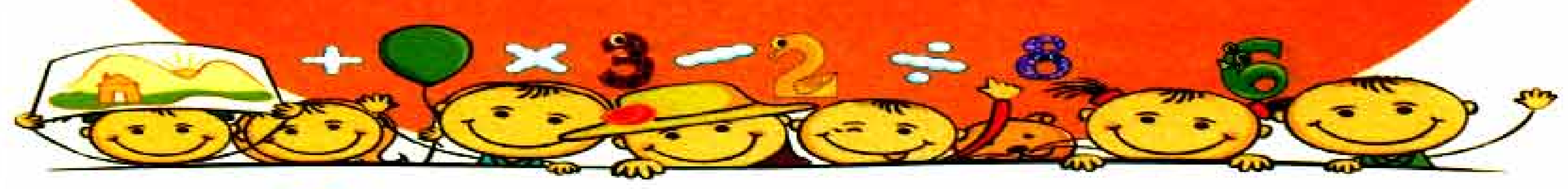


9 + ☐ = 10



8 + ☐ = 10







Decomposing of a number

A word to the parents

We can use the help of the pervious lesson (components of 10) in solving problems .

Example 1.



7 + 8

So I must think of a way to decompose one of both sides

Let's think together ,

Number 8 will become 3 + 5 after decomposing it and I know that from the components of 10 is "3 , 7"

So we can re-write it after decomposing number 8 as follows

7 + 3 + 5 , then and 3 and 7 together to give you ten

10

So the answer will be 10 + 5 = 15

Now can you follow the same way of decomposing a number using the help of components of 10

Example 2 .(subtraction)

17 – 9 =

9

7 2

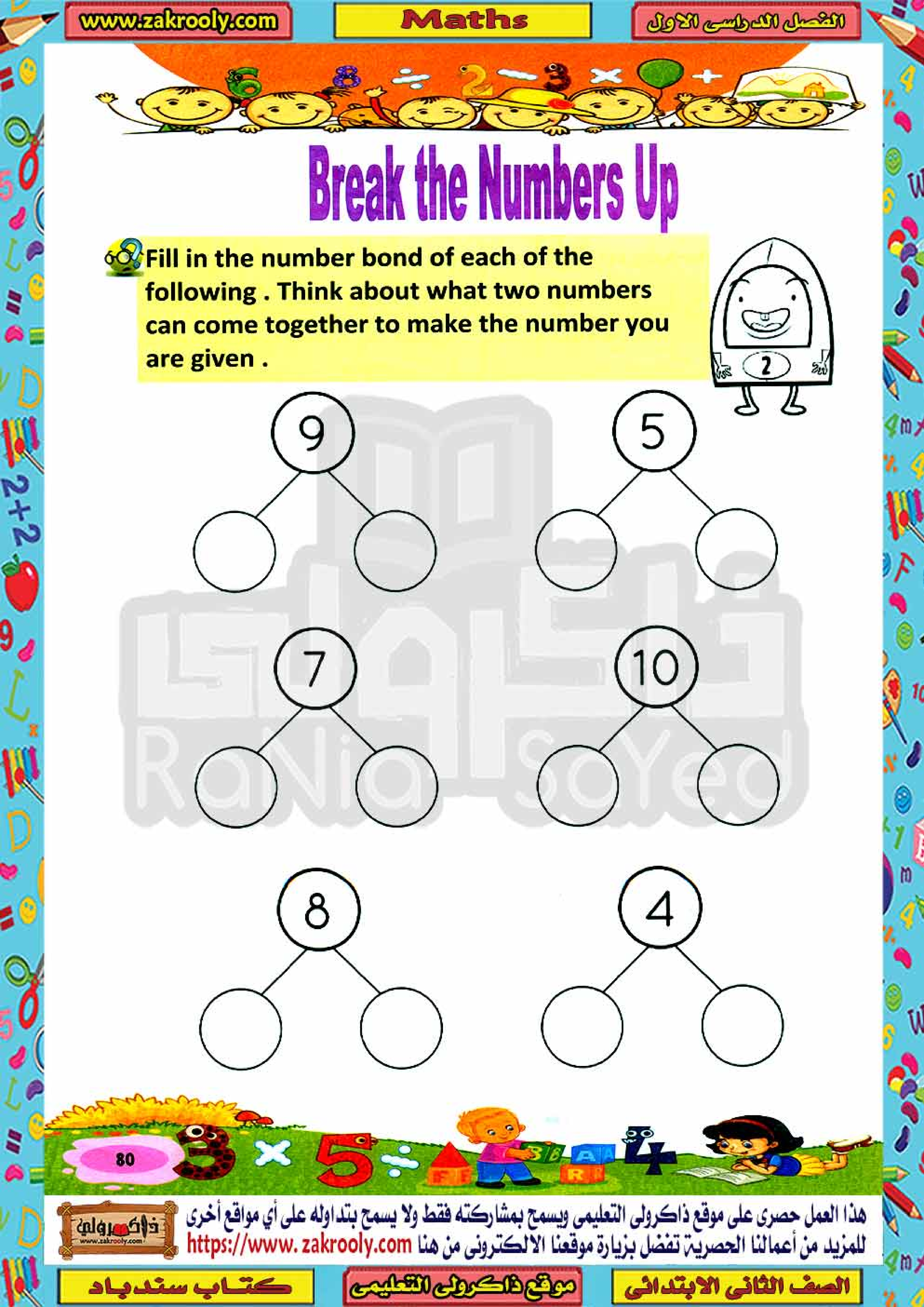
Re-write the problem one more time but after decomposing the smaller number which is 9 .

17 – 7 - 2 =

10 – 2 = 9







Break the Numbers Up

Fill in the number bond of each of the following . Think about what two numbers can come together to make the number you are given .



Find the result using decomposition of a number .

5 + 9 = ----
After
decomposing 9
5 + 5 + 4
---- + 4
= -----

7 + 6 = ----
After
decomposing 6
7 + ---- + ----
10 + ----
= -----

15 - 6 = ----
After
decomposing 6
15 - ---- - ----
10 - ----
= -----

14 - 7 = ----
After
decomposing 7
14 - ---- - ----
10 - ----
= -----

9 + 6 = ----
After
decomposing 6
9 + ---- + ----
10 + ----
= -----

16 - 9 = ----
After
decomposing 9
16 - ---- - ----
10 - ----
= -----

12 - 8 = ----
After
decomposing 8
12 - ---- - ----
10 - ----
= -----

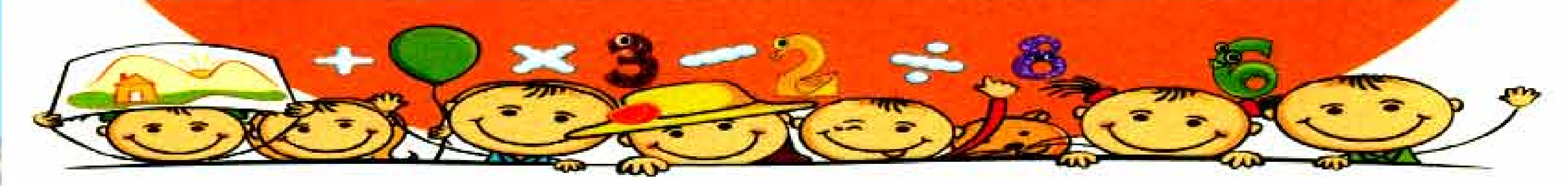


Find the result using decomposition of a number.

11 - 4 Λ 1 3	11 - ----- = 10	So, 10 – 3 = 7
5 + 7 Λ 5 2	5 + ----- = 10	So , 10 + ---- =----
6 + 8 Λ 4 2	8 + ----- = 10	So , 10 + ---- = ----
16 – 7 Λ 1 --	16 - ----- = 10	So , 10 - ---- = ----
8 + 9 Λ 2 7	8 + ----- =10	So , 10 + ---- = ----
13 - 3	13 - ---- = 10	So , 10 - ---- = ----
17 - 9 Λ -- --	17 - ----- =10	So , 10 - ---- = ----
7 + 4 Λ -- --	7 + ----- = 10	So , 10 + ---- = ----
12 – 5 Λ -- --	12 - ---- = ----	So , 10 - ---- = ----



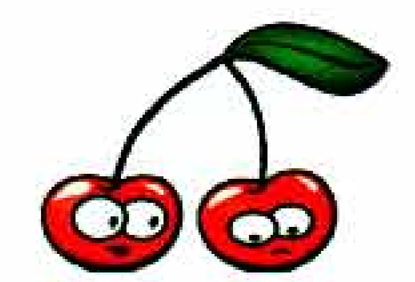






Word Problem using Mental Math

Read the story problem. Use mental math strategies to find the answer. Then write a number sentence to show the problem.



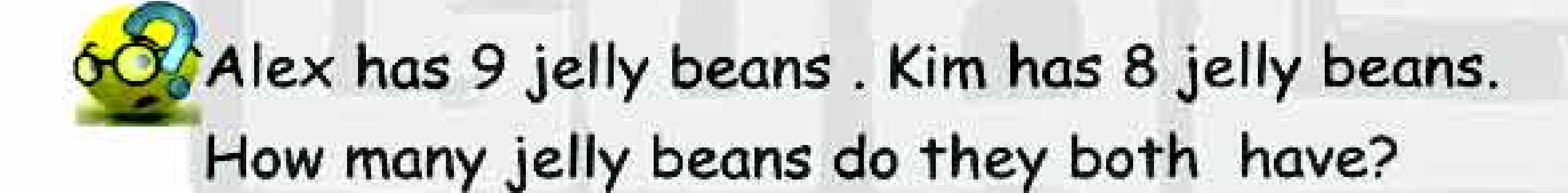
Robert has 5 more cherries than John. John has 8 cherries. How many does Robert have?



------ + ------ = ------
After decomposing 5
----- + ------ = 10
10 + ------ =



Alex has 9 jelly beans . Kim has 8 jelly beans. How many jelly beans do they both have?



------ + ------ = ------
After decomposing 9
----- + ------ = 10
10 + ------ =



Kelly has 15 chocolates. Mike has 8 less than Kelly. How many chocolates does Mike have?

------- - ------- = ---------
After decomposing 8
----- - ------ = 10
10 - ------ =







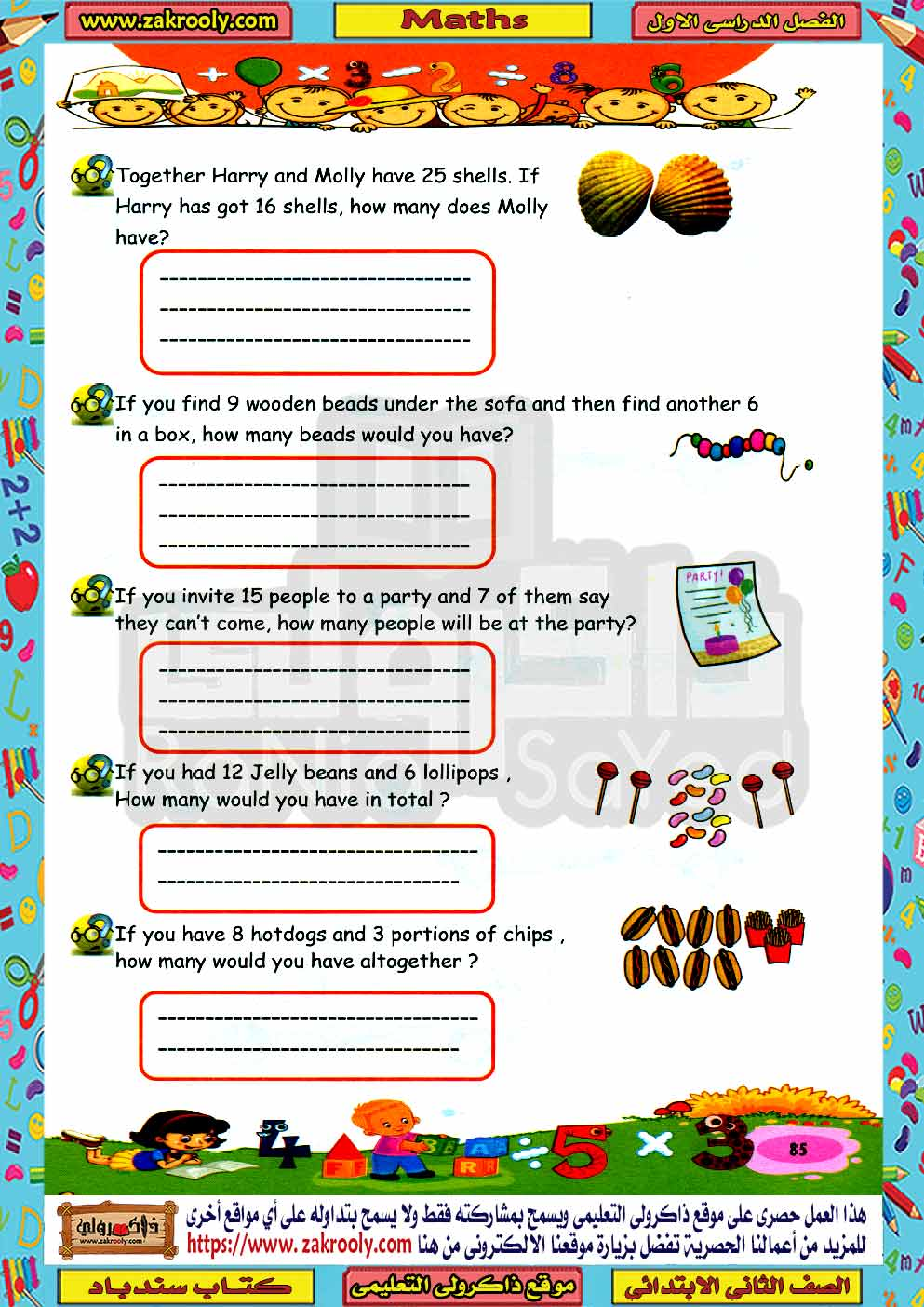
Anna has 19 strawberries. Charlie has 8 more than Anna. How many strawberries does Charlie have?

Nina has 26 lollipops. Jake has 7 more than Nina. How many lollipops does Jack have?

Together Sam and Tom have 19 football stickers. Tom has 8 stickers. How many stickers does Sam have?

Altogether Jay and Sam have 17 books. Jay takes 5 books. How many books are left for Sam?

Kelly has 15 chocolates. Mike has 8 more than Kelly. How many chocolates does Mike have?



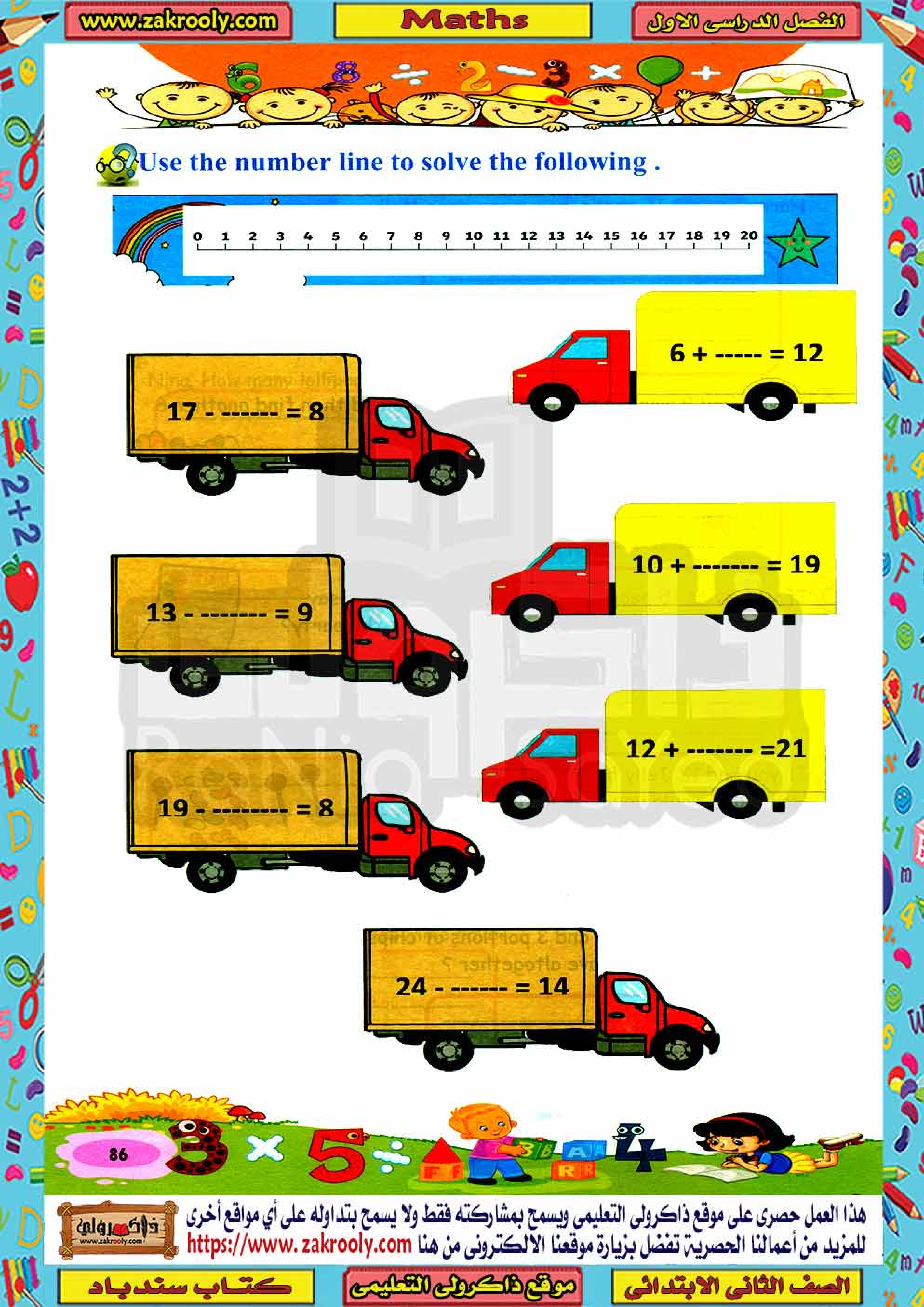
Together Harry and Molly have 25 shells. If Harry has got 16 shells, how many does Molly have?

If you find 9 wooden beads under the sofa and then find another 6 in a box, how many beads would you have?

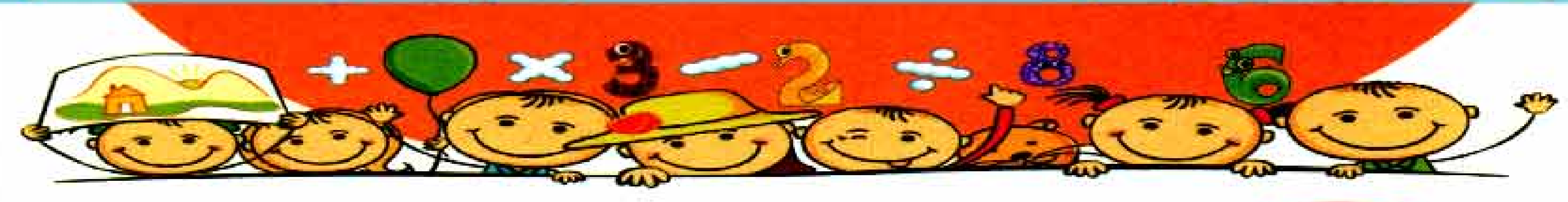
If you invite 15 people to a party and 7 of them say they can't come, how many people will be at the party?

If you had 12 Jelly beans and 6 lollipops , How many would you have in total ?

If you have 8 hotdogs and 3 portions of chips , how many would you have altogether ?



Use the number line to solve the following .





Counting by Hundreds

Chapter 3
Lessons from
21- 30

A word to the parents

By the end of this lesson your child will be able to

Count by Hundreds and knows the multiples of Hundreds.

You know that the greatest one-digit number is 9

and in order to find the number that comes just after 9

you just need to add 1 .

+ =

9 + 1 = 10

10 is read as " Ten " and it is the smallest two digit number.

Note that



1 ten = 10 units

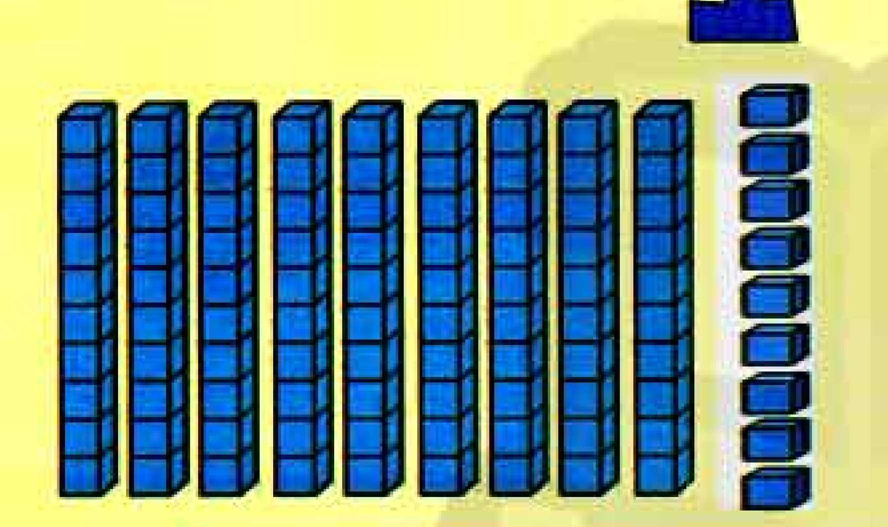




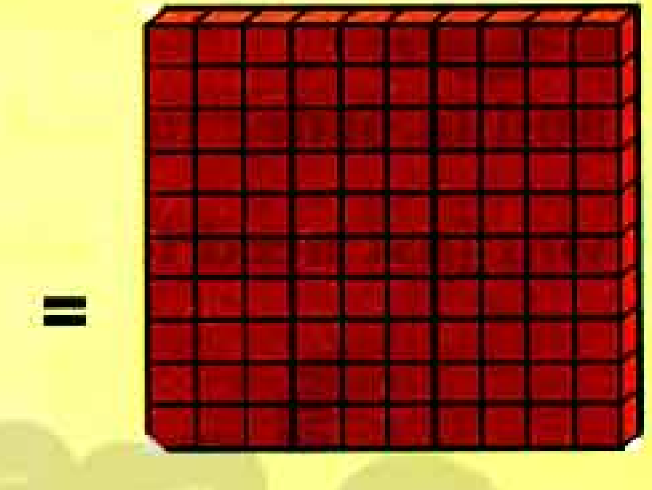


You know that the greatest 2-digit number is **99** " ninety-nine ."

and in order to find the number that comes just after **99** you just need to add **1** .



+ ■ =



99	+	1	=	100

100 is read as " one hundred "

and it is the smallest 3-digit number .

Note that

1 hundred = 10 tens = 100 units



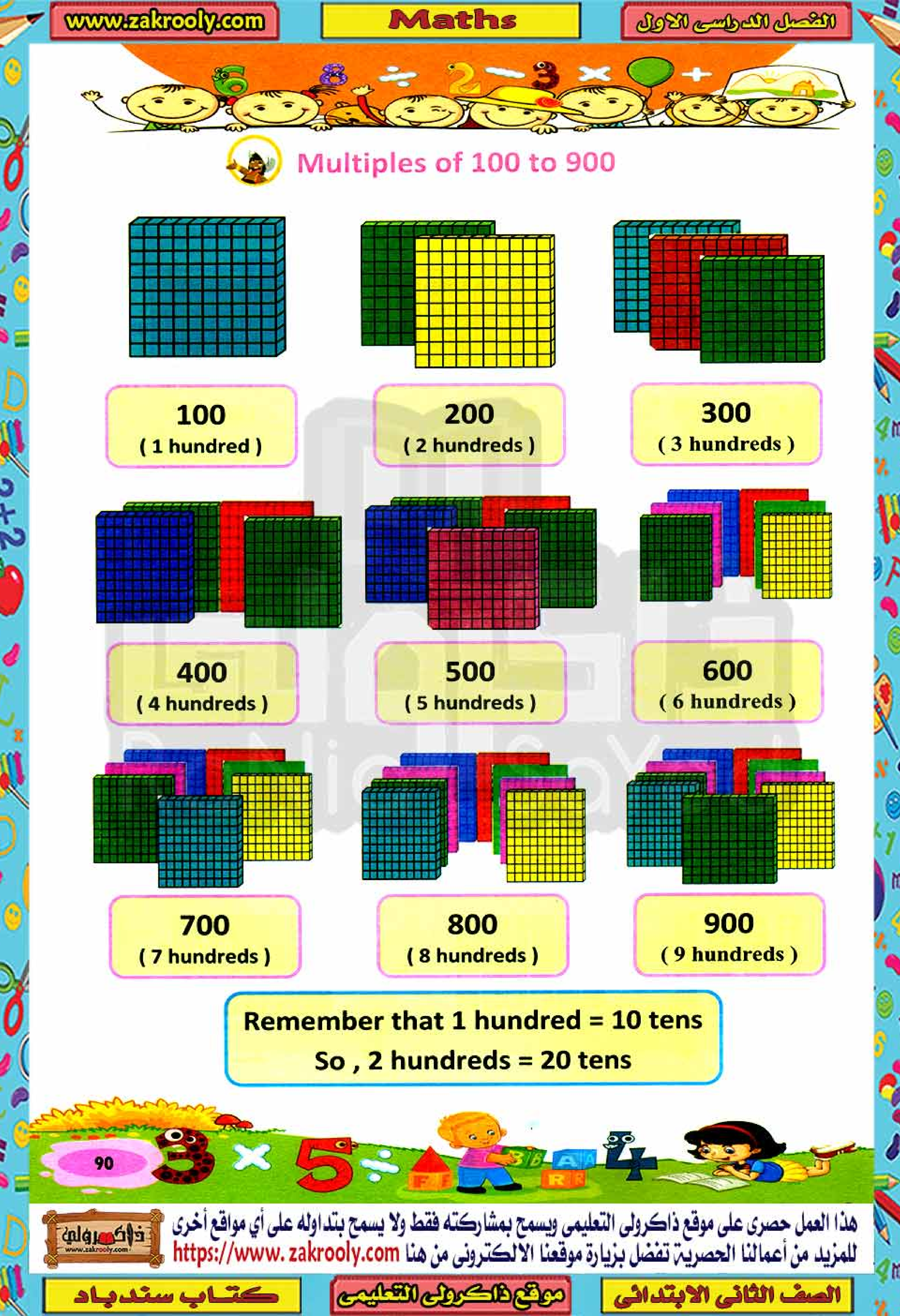




Components of one hundred

Complete as in the example

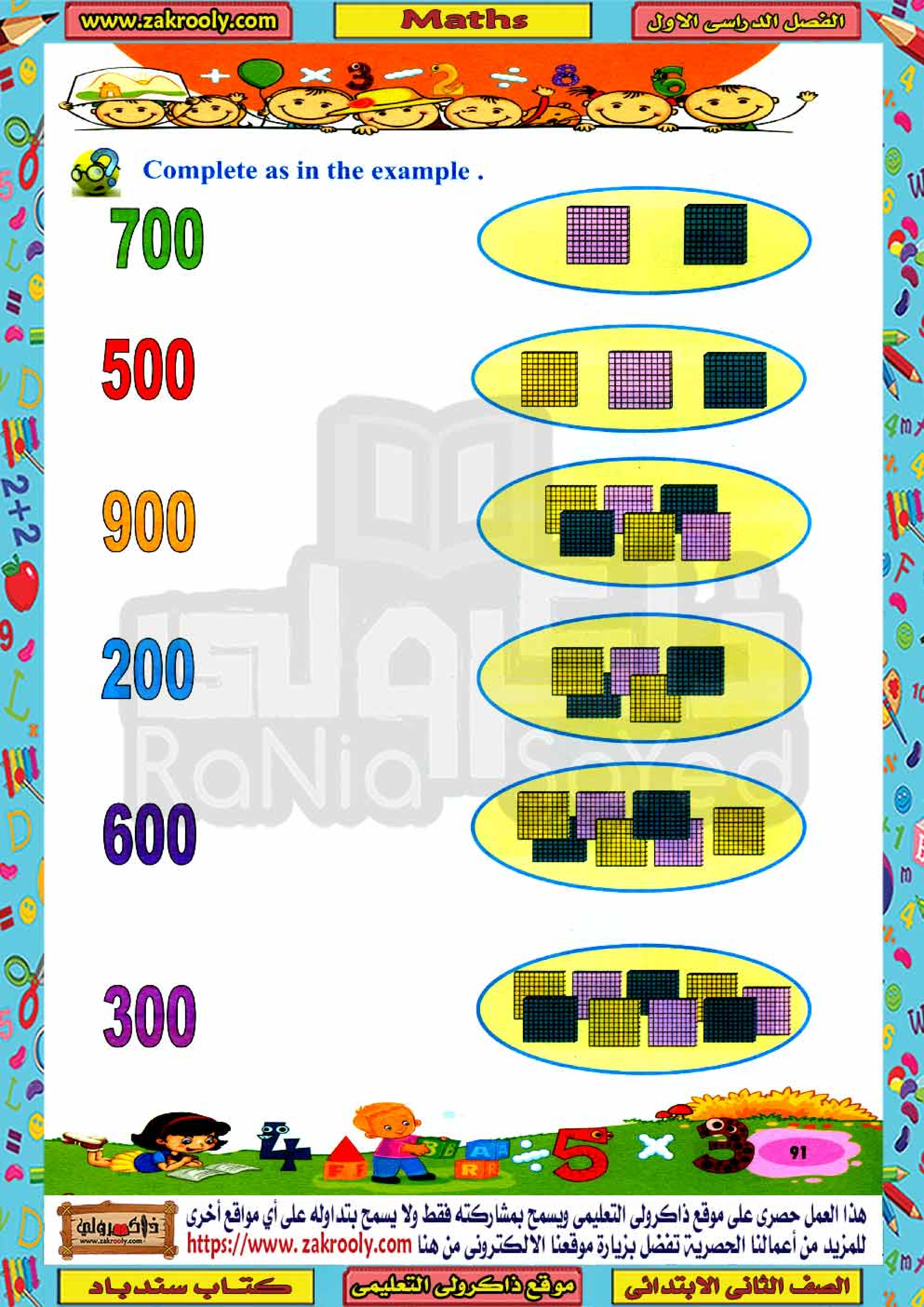
10	+	90	=	100
----	+	----	=	100
----	+	----	=	----
----	+	----	=	----



Multiples of 100 to 900

100 (1 hundred)	200 (2 hundreds)	300 (3 hundreds)
400 (4 hundreds)	500 (5 hundreds)	600 (6 hundreds)
700 (7 hundreds)	800 (8 hundreds)	900 (9 hundreds)

Remember that 1 hundred = 10 tens
So , 2 hundreds = 20 tens



Complete as in the example .

700

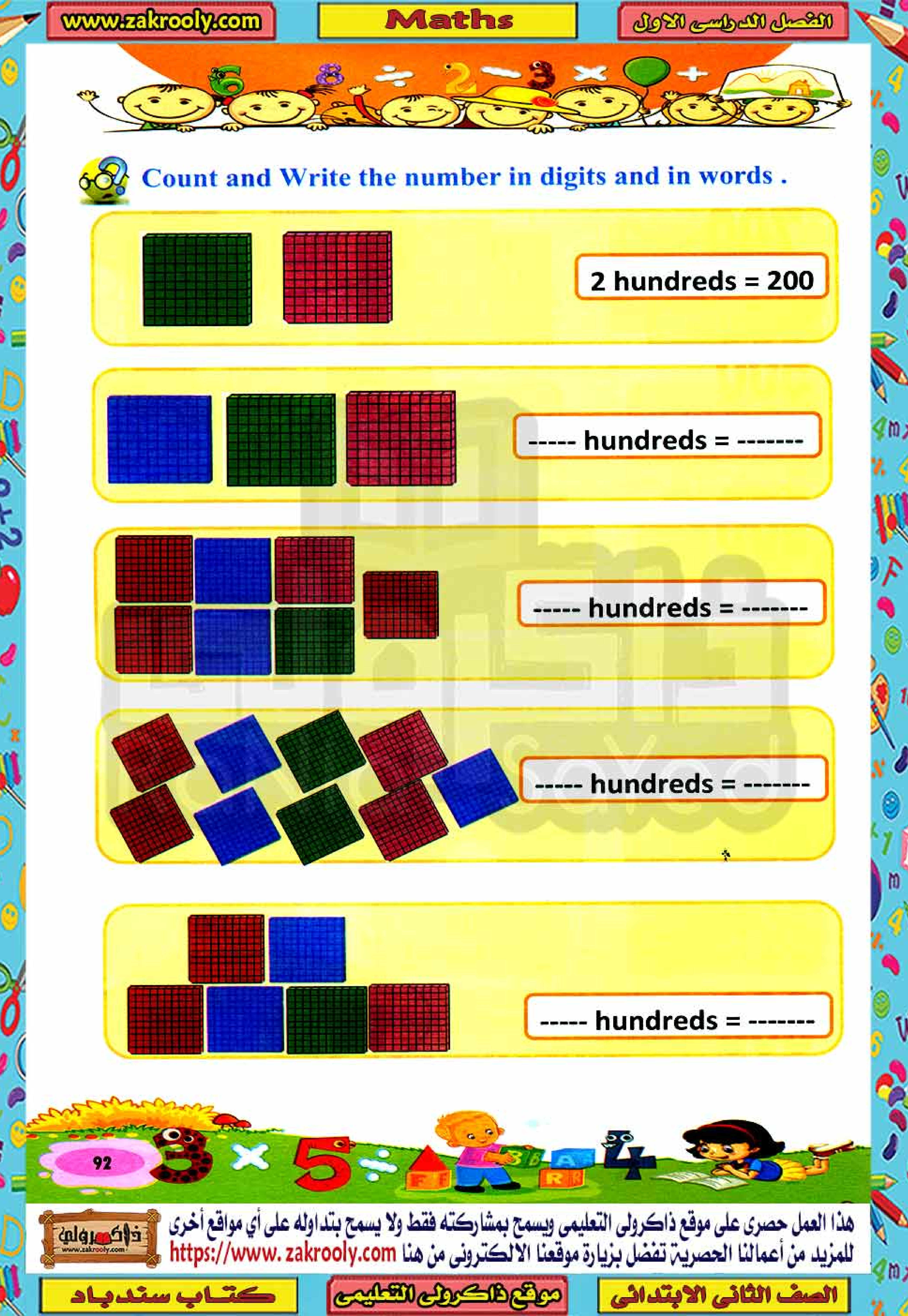
500

900

200

600

300



Count and Write the number in digits and in words .

2 hundreds = 200

----- hundreds = -------

----- hundreds = -------

----- hundreds = -------

----- hundreds = -------





Complete the following as in the example .

60 + 40 = 100

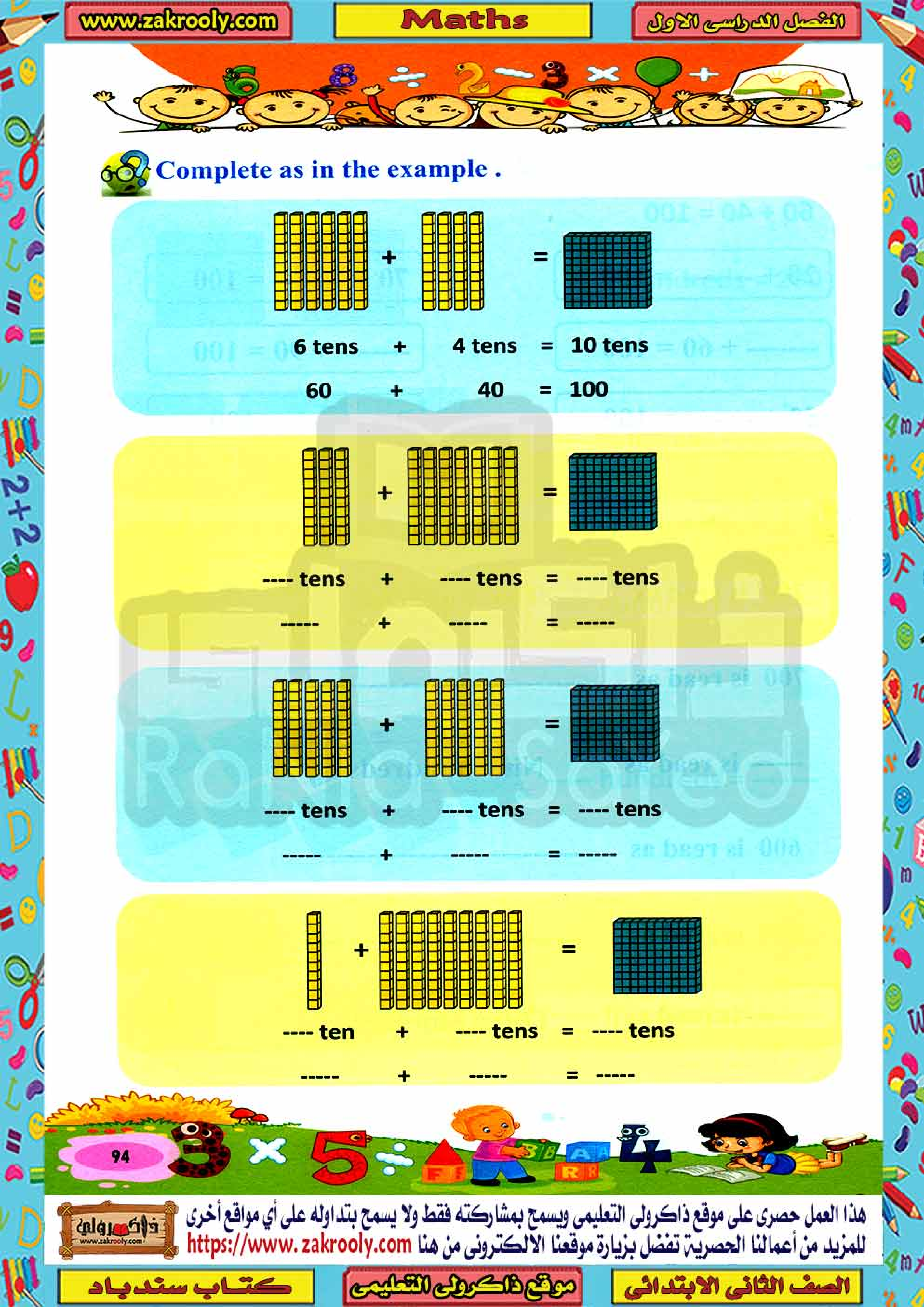
20 + ------- = 100	70 + ------- = 100
------- + 60 = 100	------- + 90 = 100
50 + ------- = 100	0 + ------- = 100



Complete the following as in the example .

200 is read as	Two hundreds
700 is read as	---------------------------
------ is read as	Nine hundreds
600 is read as	---------------------------
500 is read as	---------------------------
------ is read as	Three hundreds





Complete as in the example .

6 tens + 4 tens = 10 tens

60 + 40 = 100

---- tens + ---- tens = ---- tens

----- + ----- = -----

---- tens + ---- tens = ---- tens

----- + ----- = -----

---- ten + ---- tens = ---- tens

----- + ----- = -----





Complete as in the example .

3 hundreds + 5 hundreds = 8 hundreds

300 + 500 = 800

3 hundreds + -------- hundreds = ------- hundreds

-------- + 600 = 900 = 90 tens

5 hundreds - -------- hundreds = -------- hundreds

500 - 200 = ------ = -------- tens

------ hundreds + ------ hundreds = ------ hundreds

400 + 200 = ------ = ------ tens

9 hundreds - -------- hundreds = 8 hundreds

------ - ------ = ------ = -------- tens

------ hundreds + ------ hundreds = ------ hundreds

400 + 500 = ------ = 90 tens









Complete as in the example .

40 tens = 400 = 4 hundreds

20 tens = --------- = ------- hundreds

50 tens = --------- = ------- hundreds

------ tens = --------- = 8 hundreds

------ tens = 600 = ------- hundreds

------ tens = --------- = 7 hundreds

------ tens = 300 = ------- hundreds

------ tens = --------- = 1 hundred

90 tens = -------- = ------- hundreds





Put (< , > or =)

300		5 hundreds
4 hundreds		40 tens
400 + 200		50 tens
3 hundreds		20 tens
3 hundreds		30 units
6 hundreds - 300		30 tens
900 - 400		50 units
7 hundreds		40 tens - 20 tens
900 – 2 hundreds		70 tens



Complete as in the example .

--------------- + ------------- = ---------- pounds

--------------- - ------------- = ------------- pounds

--------------- + ------------- = ------------- pounds

--------------- - ------------- = ------------- pounds





Place Value



A word to the parents

By the end of this lesson your child will be able to :

- Determine the place value of the digit
- Read and write any number formed from 3-digis

For any number, the value of each digit depends on it's place

Example

In the next table you will see the place value and the value of each digit of the number 362 .

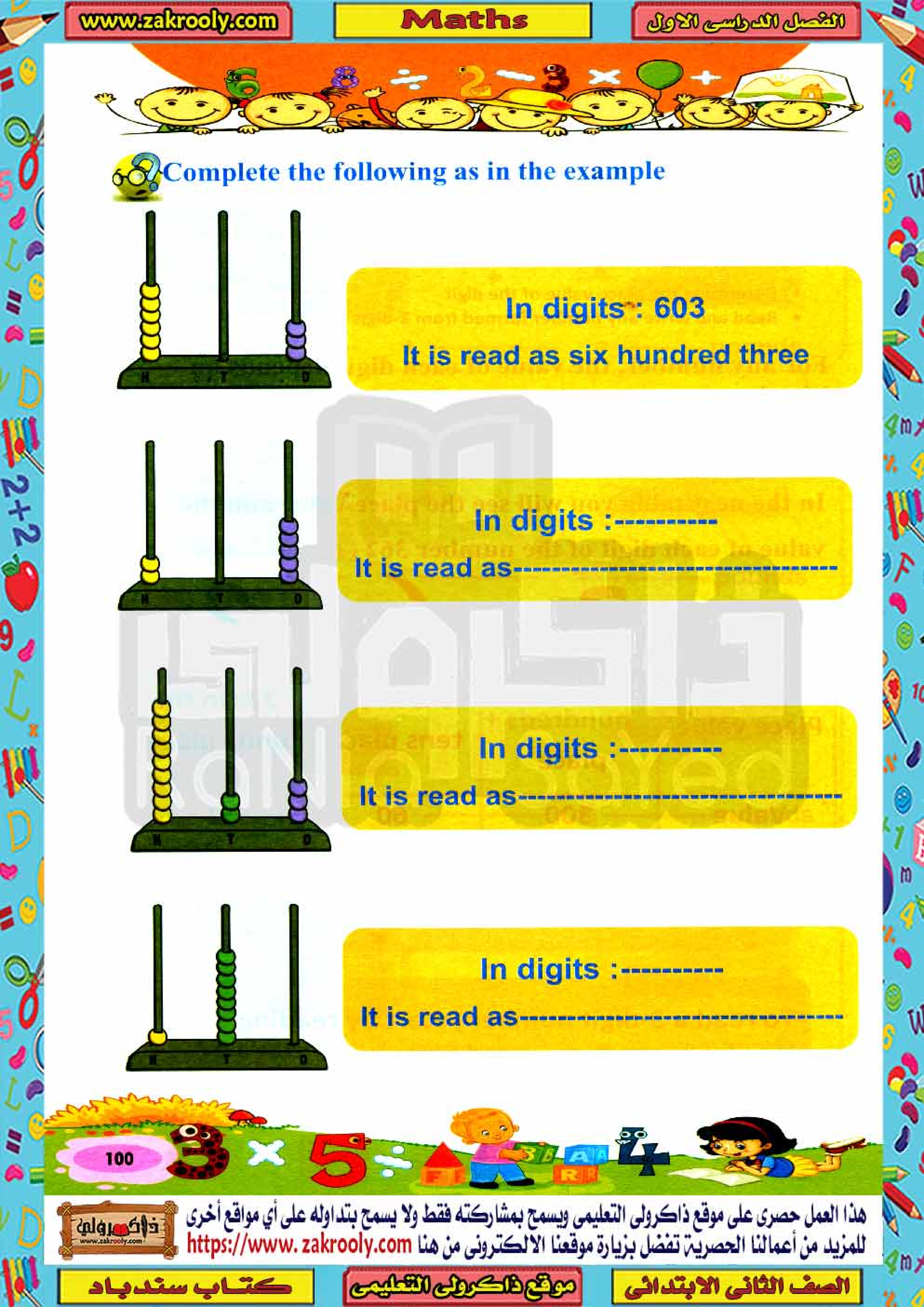
	3	6	2
Place value	3 is in the hundreds place	6 is in the tens place	2 is in the units place
Value	300	60	2

And it is read as three hundred sixty-two

362 = 300 + 60 + 2

To read a 3-digit number , start by reading hundreds , then tens and units .





Complete the following as in the example

In digits : 603

It is read as six hundred three

In digits :----------

It is read as---------------------------------

In digits :----------

It is read as---------------------------------

In digits :----------

It is read as---------------------------------

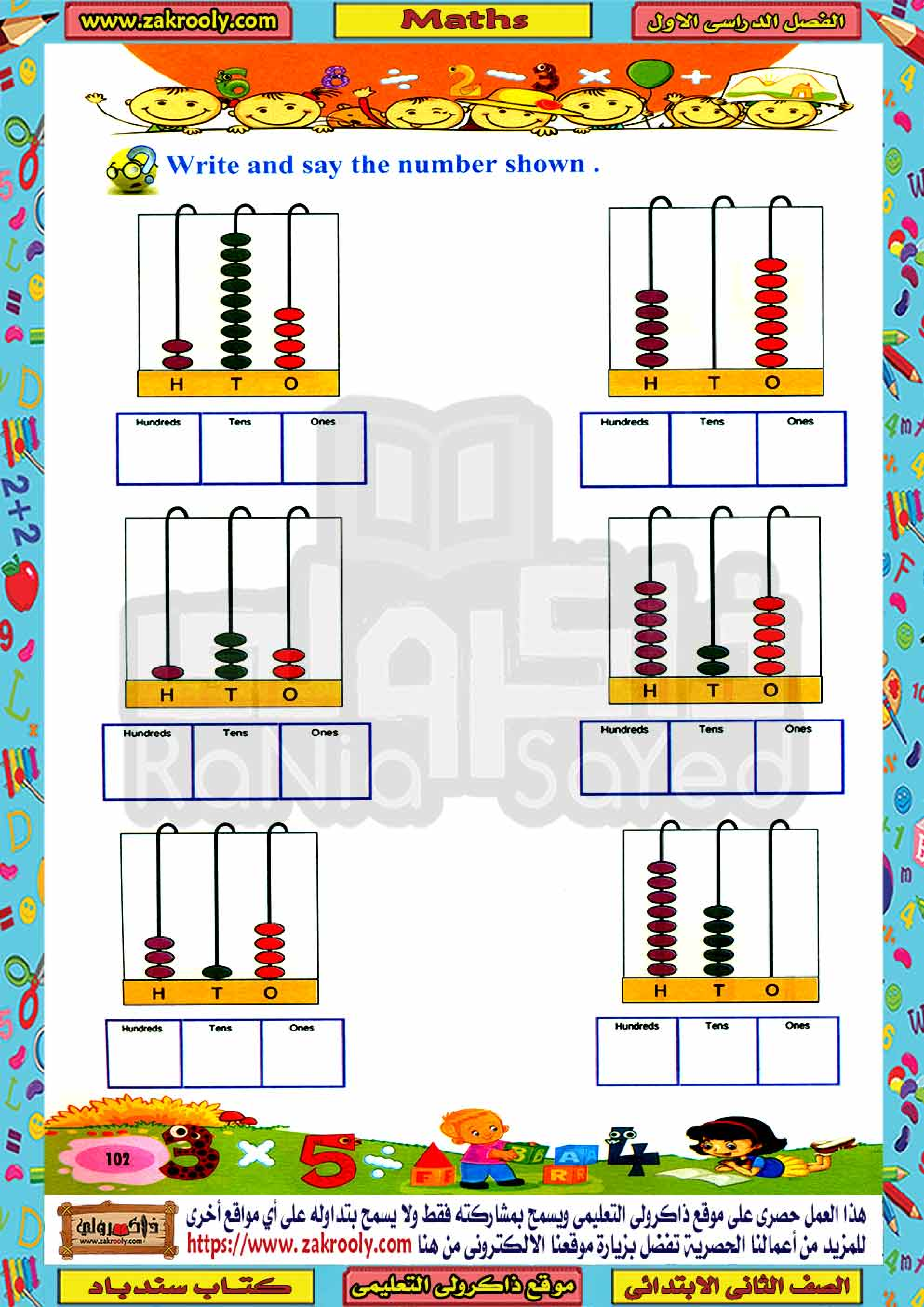


In digits :----------
It is read as--------------------------------

In digits :----------
It is read as--------------------------------

In digits :----------
It is read as--------------------------------

In digits :----------
It is read as--------------------------------



Write and say the number shown .

H T O

Hundreds	Tens	Ones

H T O

Hundreds	Tens	Ones

H T O

Hundreds	Tens	Ones

H T O

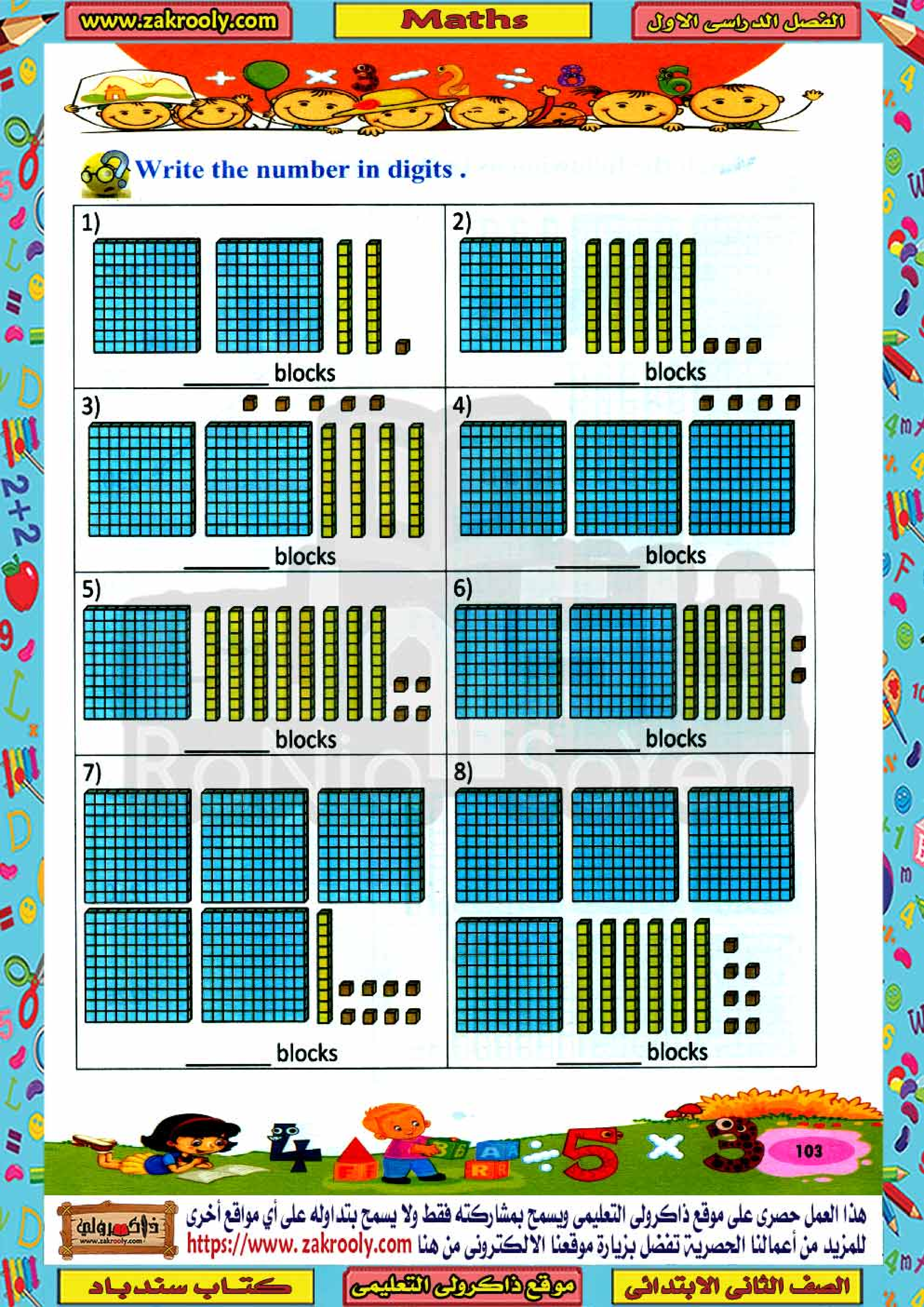
Hundreds	Tens	Ones

H T O

Hundreds	Tens	Ones

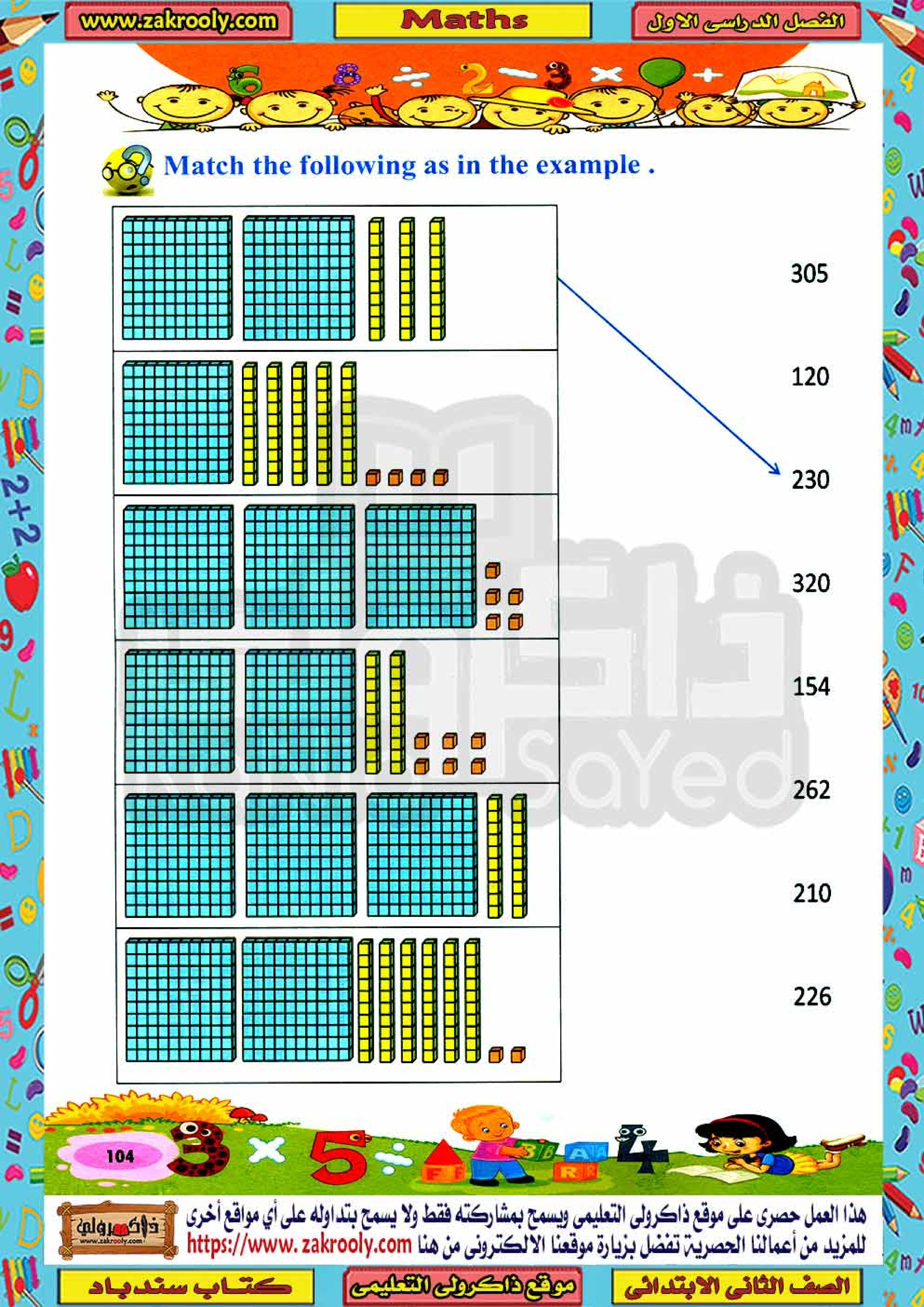
H T O

Hundreds	Tens	Ones



Write the number in digits .

1) ______ blocks	2) ______ blocks
3) ______ blocks	4) ______ blocks
5) ______ blocks	6) ______ blocks
7) ______ blocks	8) ______ blocks



Match the following as in the example .

305

120

230

320

154

262

210

226



Complete as in the example .

Hundreds	Tens	Units
1	7	8

178

1 hundred, 7 tens and 8 units

100 + 70 + 8

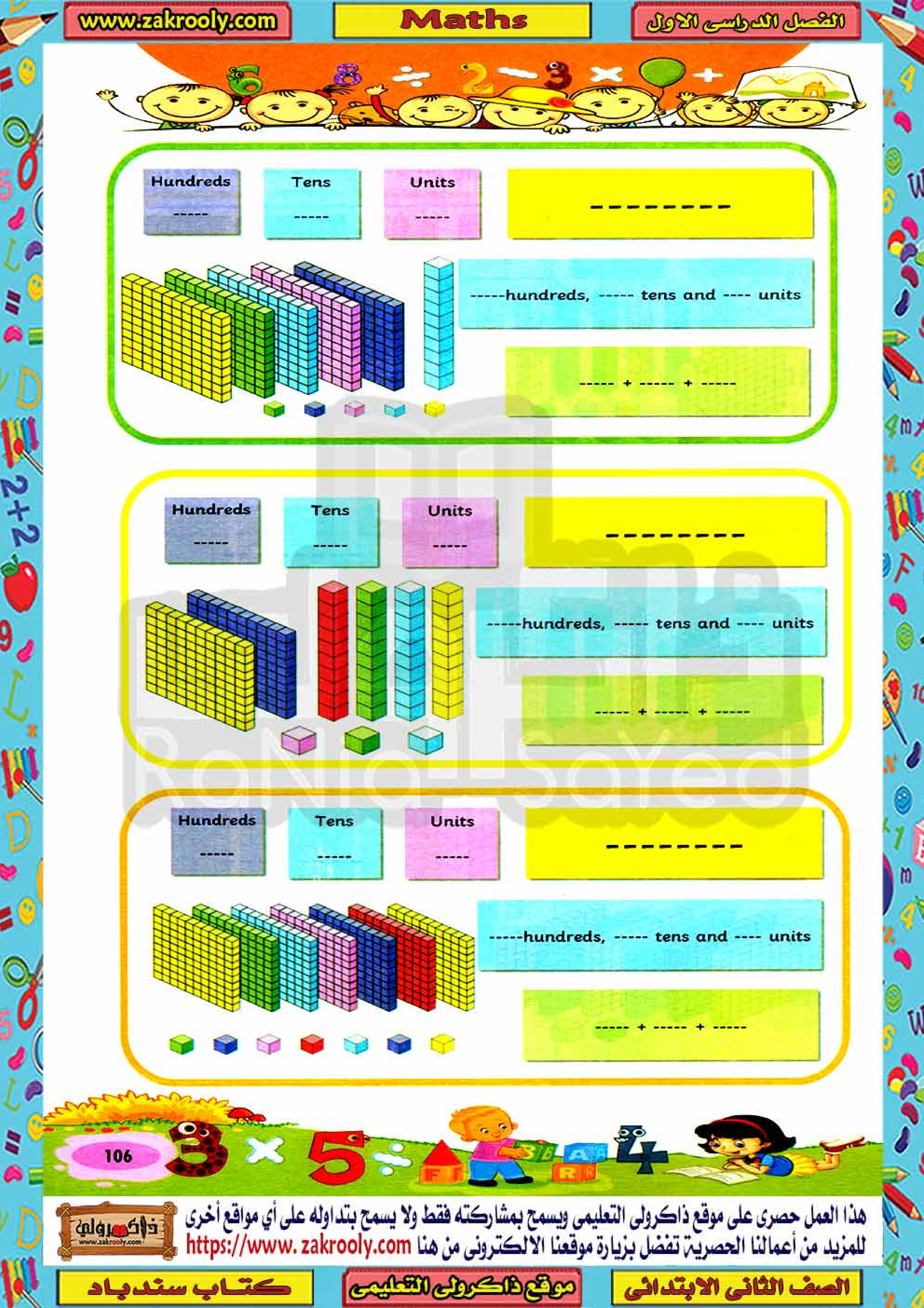
Hundreds	Tens	Units
-----	-----	-----

-----hundreds, ----- tens and ---- units

----- + ----- + -----

Hundreds	Tens	Units
-----	-----	-----

-----hundreds, ----- tens and ---- units



Hundreds	Tens	Units
-----	-----	-----

-----hundreds, ----- tens and ---- units

----- + ----- + -----

Hundreds	Tens	Units
-----	-----	-----

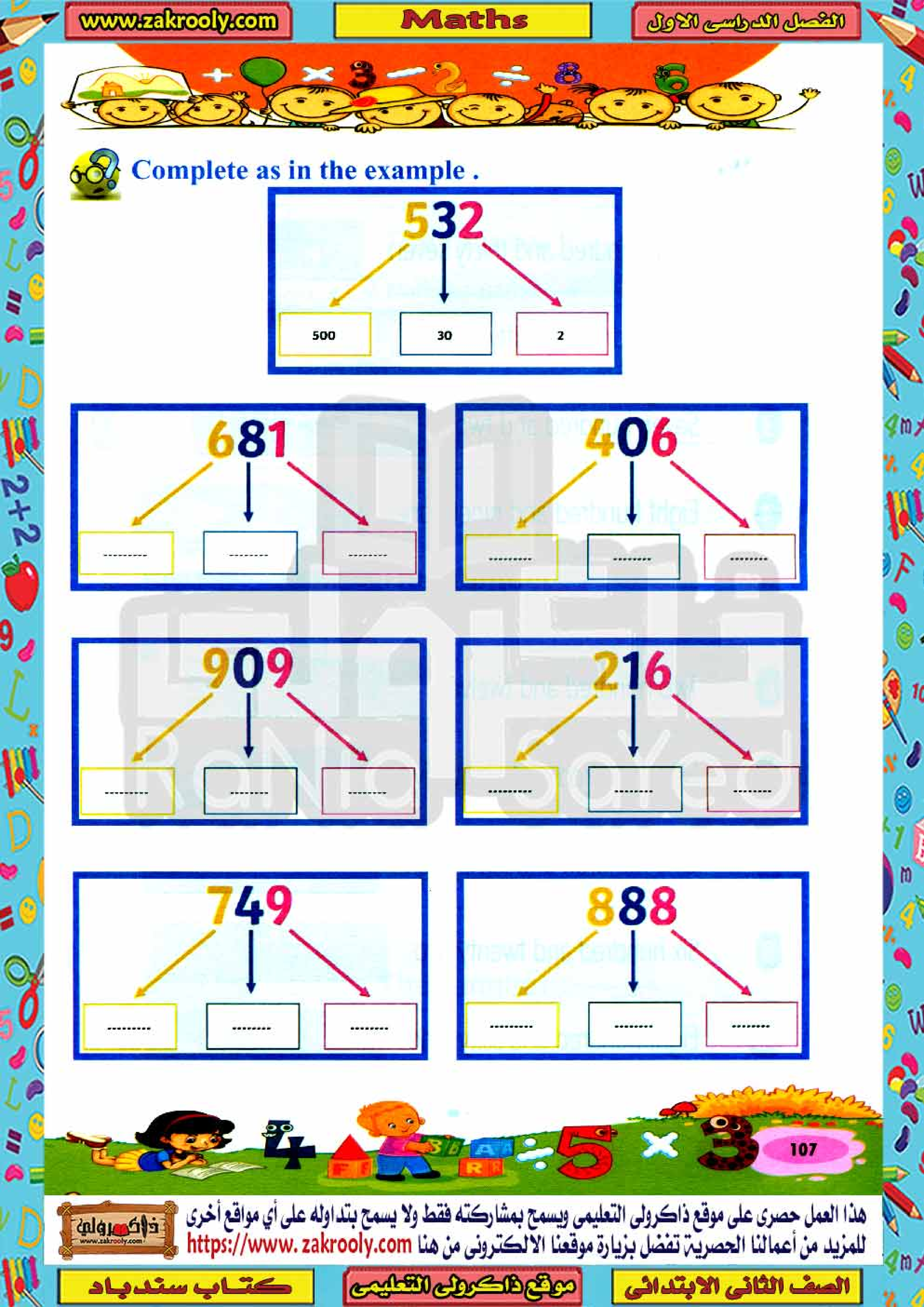
-----hundreds, ----- tens and ---- units

----- + ----- + -----

Hundreds	Tens	Units
-----	-----	-----

-----hundreds, ----- tens and ---- units

----- + ----- + -----



Complete as in the example .

532

500	30	2

681

---------	--------	--------

406

---------	--------	--------

909

---------	--------	--------

216

---------	--------	--------

749

---------	--------	--------

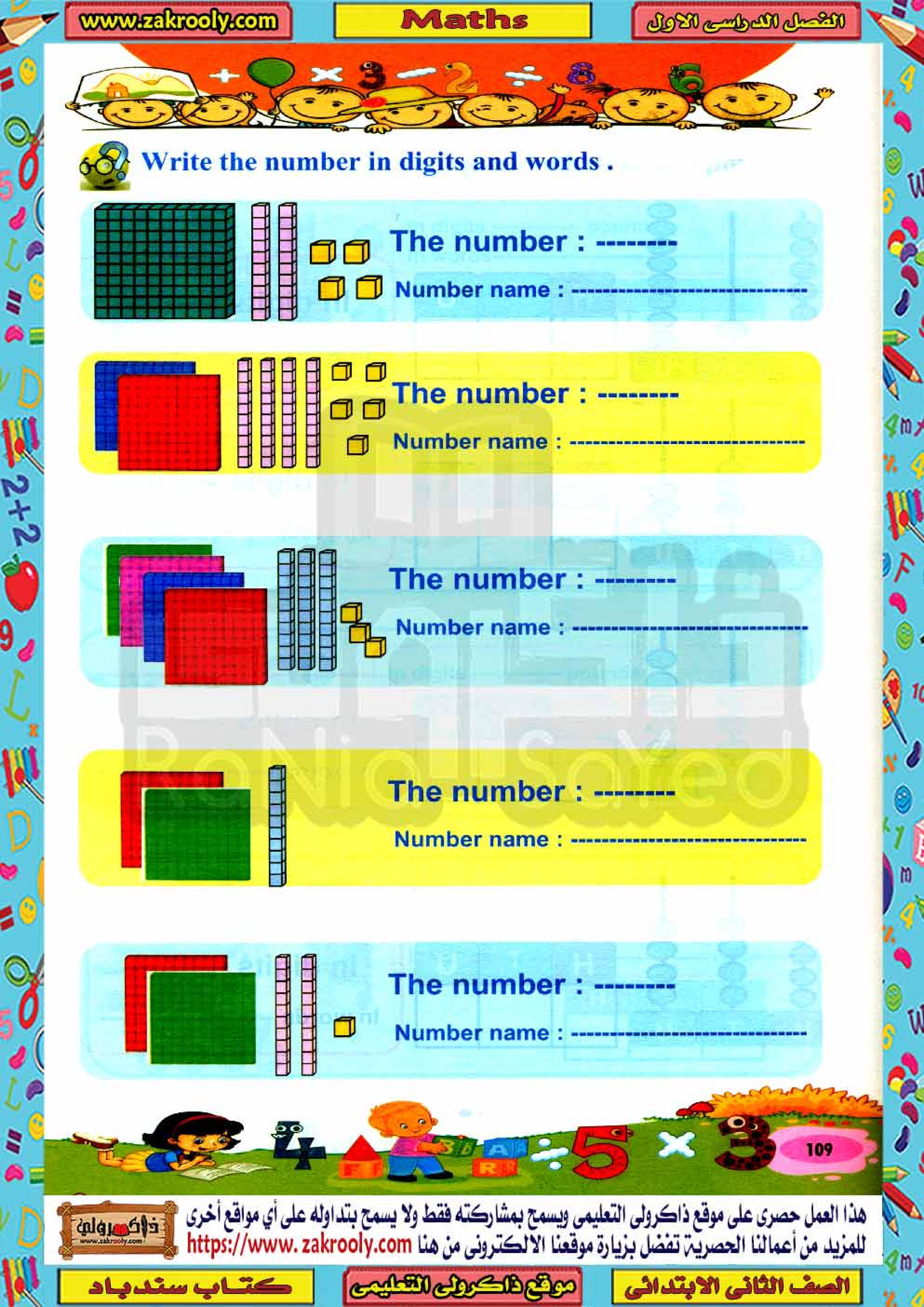
888

---------	--------	--------



Write the following number in digits .

1. Four hundred and thirty seven
2. Six hundred and fifty three
3. Seven hundred and two
4. Eight hundred and ninety one
5. Three hundred and nineteen
6. Two hundred and twelve
7. Nine hundred and eighty five
8. One hundred and seventeen
9. Six hundred and twenty two
10. Eight hundred and sixty nine



Write the number in digits and words .

The number : --------

Number name : ------------------------------

The number : --------

Number name : ------------------------------

The number : --------

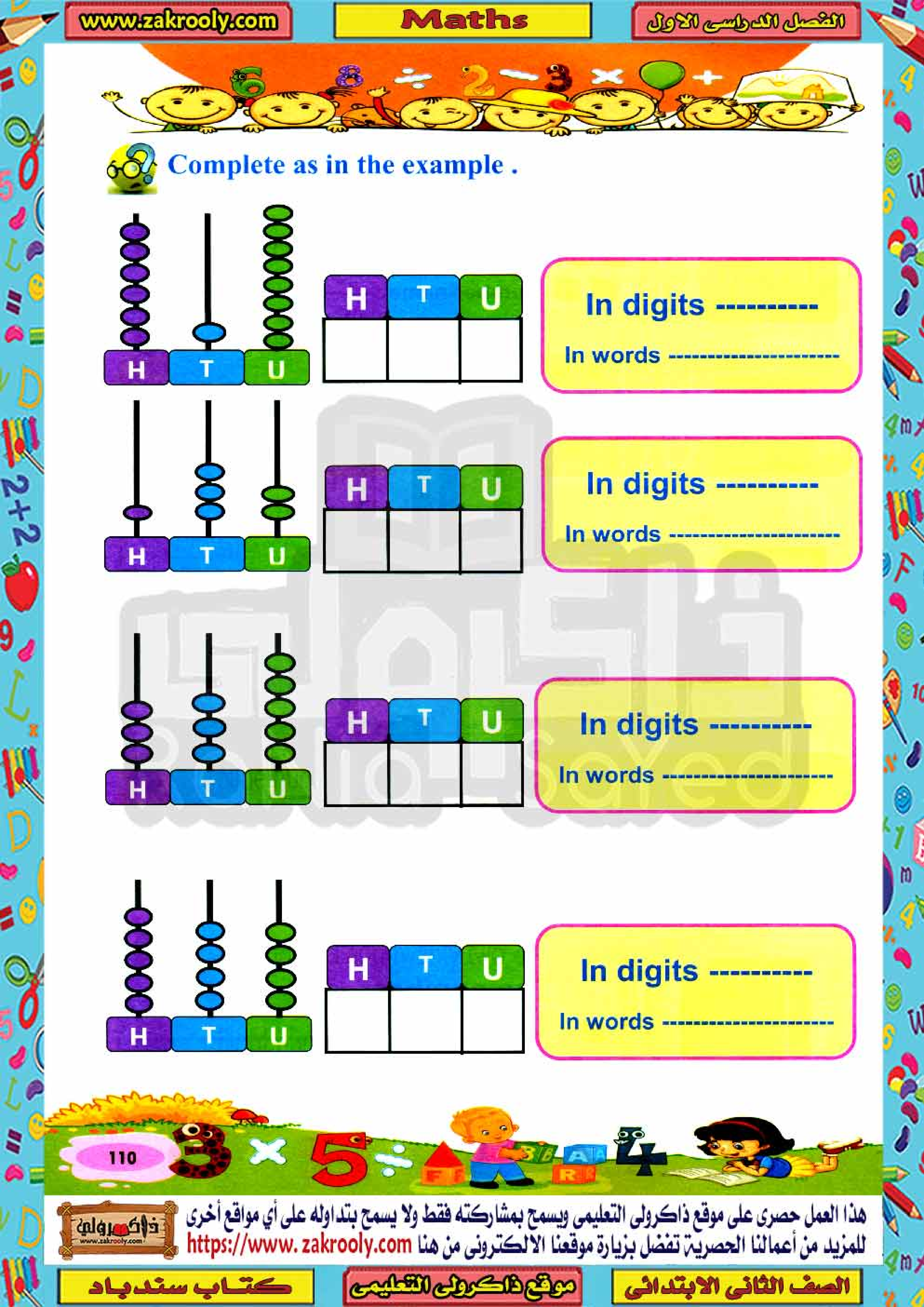
Number name : ------------------------------

The number : --------

Number name : ------------------------------

The number : --------

Number name : ------------------------------



Complete as in the example .

H	T	U

In digits ----------

In words --------------------

H	T	U

In digits ----------

In words --------------------

H	T	U

In digits ----------

In words --------------------

H	T	U

In digits ----------

In words --------------------



Write the amount of money as in the example .

In digits ------------- pounds
In words--

H	T	U

In digits ------------- pounds
In words--

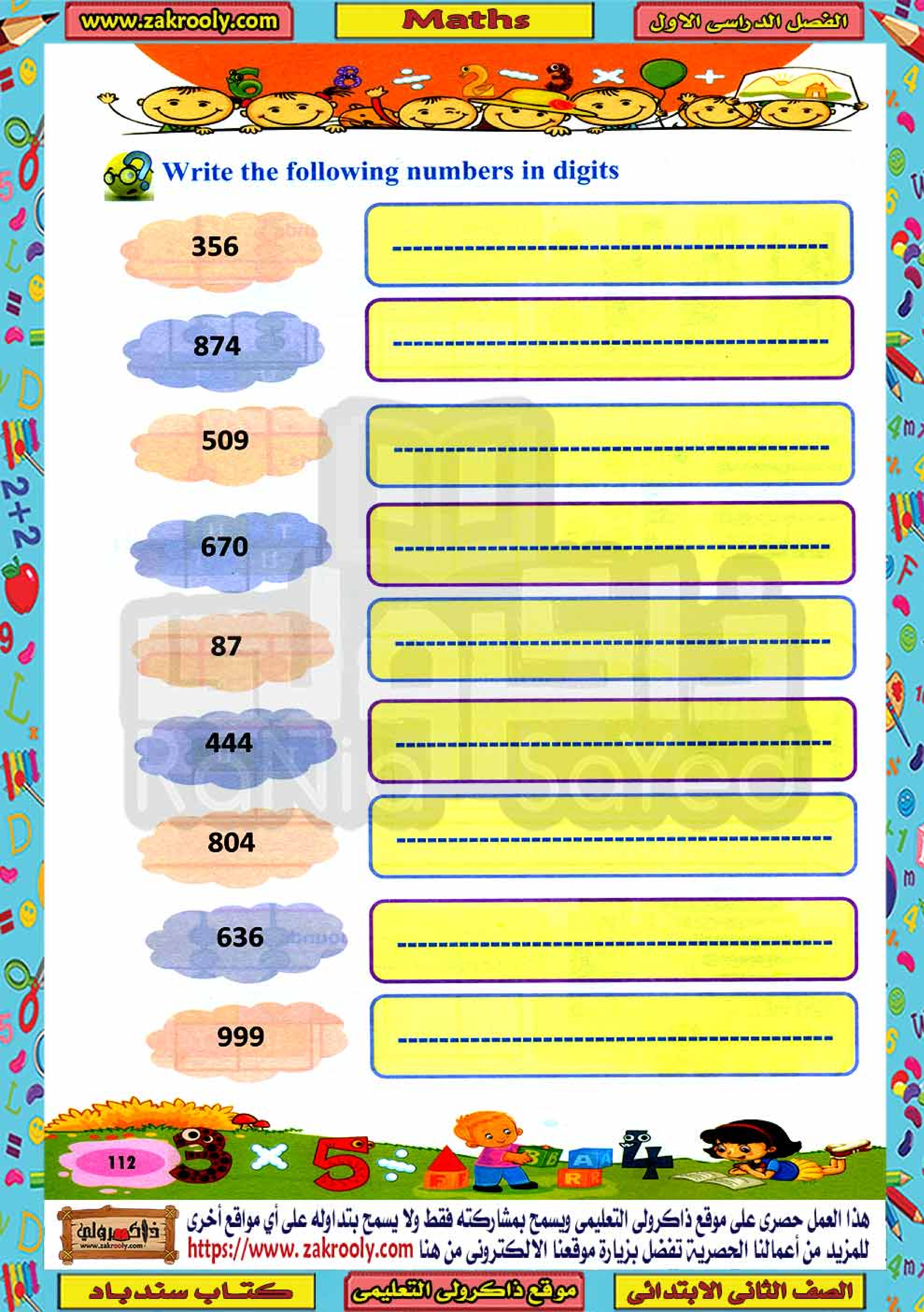
H	T	U

In digits ------------- pounds
In words--

H	T	U

In digits ------------- pounds
In words--

H	T	U



Write the following numbers in digits

356	--
874	--
509	--
670	--
87	--
444	--
804	--
636	--
999	--



Write the following numbers in digits

Eight hundred twenty-nine = -------------------------

Sixty-five = --

Nine hundred seventy-six = -------------------------

One hundred = --

Six hundred fifty-five = -----------------------------

Seven hundred ninety-seven = ---------------------

Three hundred ninety = ------------------------------

Nine hundred ninety-nine = -----------------------

Two hundred two = ------------------------------------

Answer the following .

a) 984 = ☐ hundreds , ☐ tens , ☐ units

b) 809 = ☐ hundreds , ☐ tens , ☐ units

c) 520 = ☐ units , ☐ tens , ☐ hundreds

d) 669 = ☐ hundreds , ☐ tens , ☐ units

e) 909 = ☐ hundreds , ☐ tens , ☐ units

f) 578 = ☐ units , ☐ tens , ☐ hundreds

Choose the correct answer .

a) Six hundred sixty-seven = ☐ (676 , 667 , 766)

b) One hundred seventy = ☐ (107 , 701 , 170)

c) 5 hundred twenty-nine = ☐ (529 , 592 ,295)

d) Eight hundred forty-five = ☐ (854 , 845 , 485)

e) One hunderd ten = ☐ (110 , 101 , 111)

f) 4 hundred eighty-six = ☐ (468 , 648 , 486)



Choose the correct answer .

a) the value of the digit 6 in the number 654 is

(60 , 6 , 600)

b) the value of the digit 8 in the number 598 is

(8 , 80 , 800)

c) the value of the digit 5 in the number 753 is

(500 , 50 , 5)

d) the value of the digit 0 in the number 601 is

(10 , 100 , 0)

e) the place value of the digit 9 in the number 694 is

(hundreds , tens , units)

f) the value of the digit 2 in the number 802 is

(20 , 2 , 200)

g) the place value of the digit 4 in the number 432 is

(tens , hundreds , units)

h) the value of the digit 0 in the number 110 is

(0 , 10 , 100)

i) the place value of the digit 1 in the number 217 is

(hundreds , tens , units)







Write the expanded form of each number .

a) 576 = 500 + 70 + 6

b) 470 = ----- + ---- + ----

c) 628 = ----- + ---- + ----

d) 909 = ----- + ---- + ----

e) 770 = ---- + ---- + ----

f) 865 = ---- + ---- + ----



Write the standard form of each number .

a) 300 + 20 + 9 =

b) 500 + 60 + 0 =

c) 900 + 90 + 1 =

d) 800 + 80 + 8 =

e) 300 + 200 + 3 =

f) 3 + 2 + 1 =

g) 100 + 10 + 2 =









Learning About Numbers: Expanded Form

with Julia

Let's learn about numbers and how to write them in expanded form. A number can be made up of many smaller numbers. For example:

100 + 10 + 2 = 112 *OR* 112 = 100 + 10 + 2



Write the number from each expanded form:

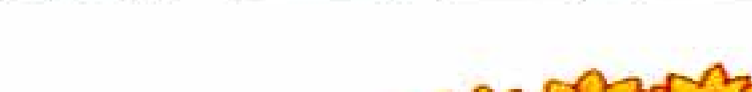
1) 100 + 20 + 5 = ________
2) 200 + 10 + 3 = ________
3) 300 + 40 + 2 = ________
4) 400 + 30 + 1 = ________
5) 500 + 50 + 4 = ________
6) 100 + 40 + 7= ________
7) 200 + 20 + 6 = ________
8) 300 + 70 + 5 = ________
9) 400 + 50 + 2 = ________
10) 500 + 70 + 9 = ________



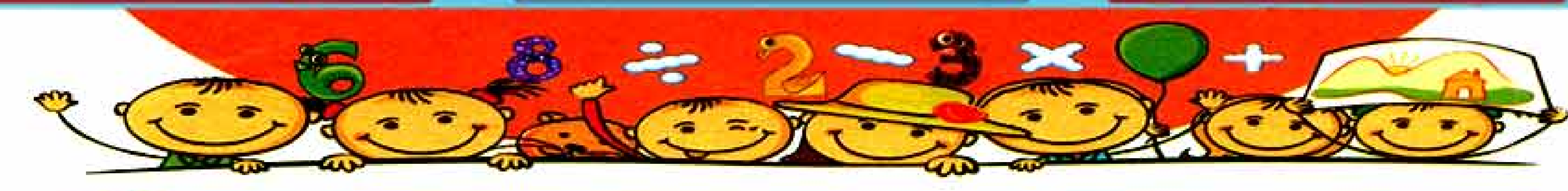
Write the expanded form of each number:

1) 192 = _____ + _____ + _____
2) 265 = _____ + _____ + _____
3) 347 = _____ + _____ + _____
4) 442 = _____ + _____ + _____
5) 564 = _____ + _____ + _____
6) 136 = _____ + _____ + _____
7) 249 = _____ + _____ + _____
8) 319 = _____ + _____ + _____
9) 483 = _____ + _____ + _____
10) 512 = _____ + _____ + _____









Practice Test: Place value

Let's practice place value together! Read each problem below and choose the right answer.



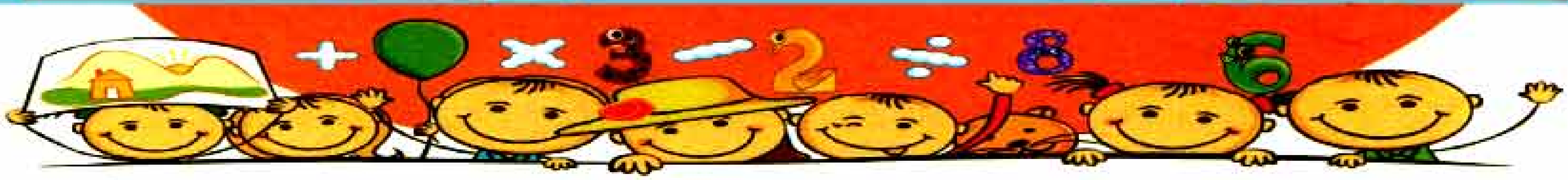
200 + 80 + 3	○ 238 ○ 233 ○ 283	400 + 60 + 2	○ 426 ○ 462 ○ 466
600 + 20 + 8	○ 682 ○ 628 ○ 622	9 hundreds, 5 tens, and 3 ones	○ 935 ○ 593 ○ 953
300 + 90 + 1	○ 391 ○ 319 ○ 311	4 hundreds, 2 tens, and 8 ones	○ 824 ○ 428 ○ 482
500 + 60 + 3	○ 563 ○ 536 ○ 533	697	○ 600 + 70 + 9 ○ 600 + 90 + 7 ○ 700 + 70 + 9
200 + 40 + 5	○ 254 ○ 255 ○ 245	436	○ 300 + 60 + 4 ○ 400 + 60 + 3 ○ 400 + 30 + 6













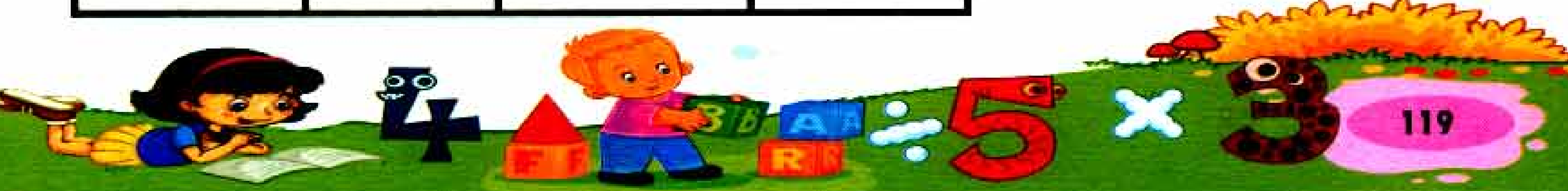
Complete the following table .

Number	+1	+10	+100
432	433	442	532
827			
411			
698			
550			
852			



Complete the following table .

Number	-1	-10	-100
594	593	583	494
368			
259			
431			





Comparing and Ordering 3-digit numbers

A word to the parents

By the end of this lesson your child will be able to :

- Compare two numbers formed from 3-digits.
- Arrange a group of 3-digit number ascendingly and descendingly .
- Determine the greatest and the smallest numbers which can be formed from 3 given digits

Compare between 123 and 41

First Example1 :Compare between 123 and 41

Number 123 consists of 3-digits while number 41 consists of 2-digits.

123 41

So , 123 has more digits than 41

Therefore 123 is greater than 41 , 123 > 41

Second Example2 :Compare between 373 and 378

Number 373 consists of 3-digits while number 378 consists of 3-digits.

373 378

So , 373 has the same number of digits as 378

First → If they are the same → Second → If they are the same → Third

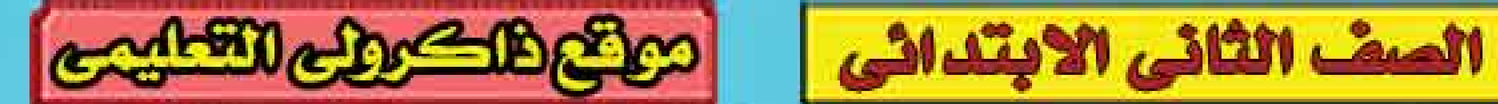
Compare the hundreds, then Compare tens, then Compare units

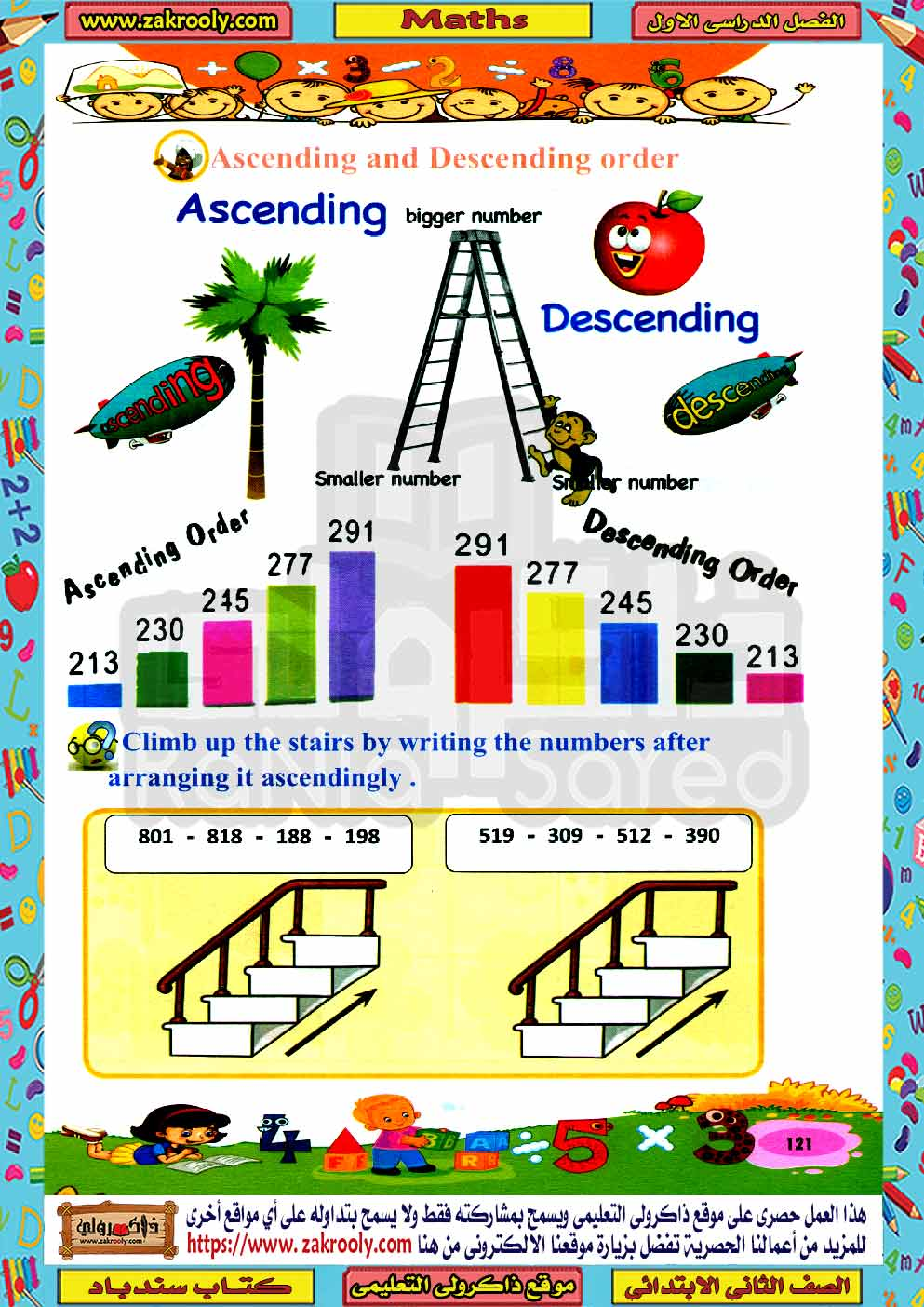


373 < 378





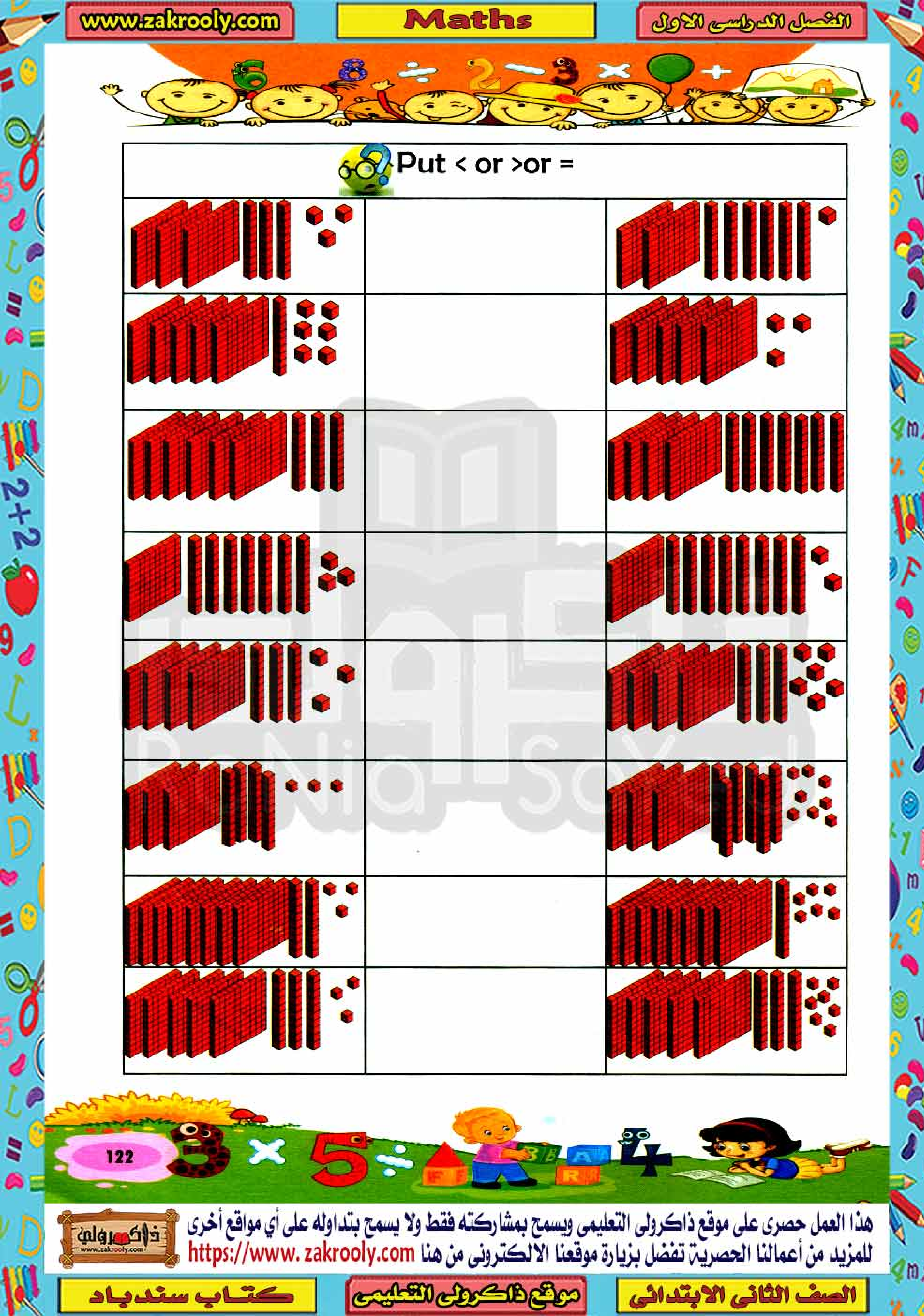


Ascending and Descending order

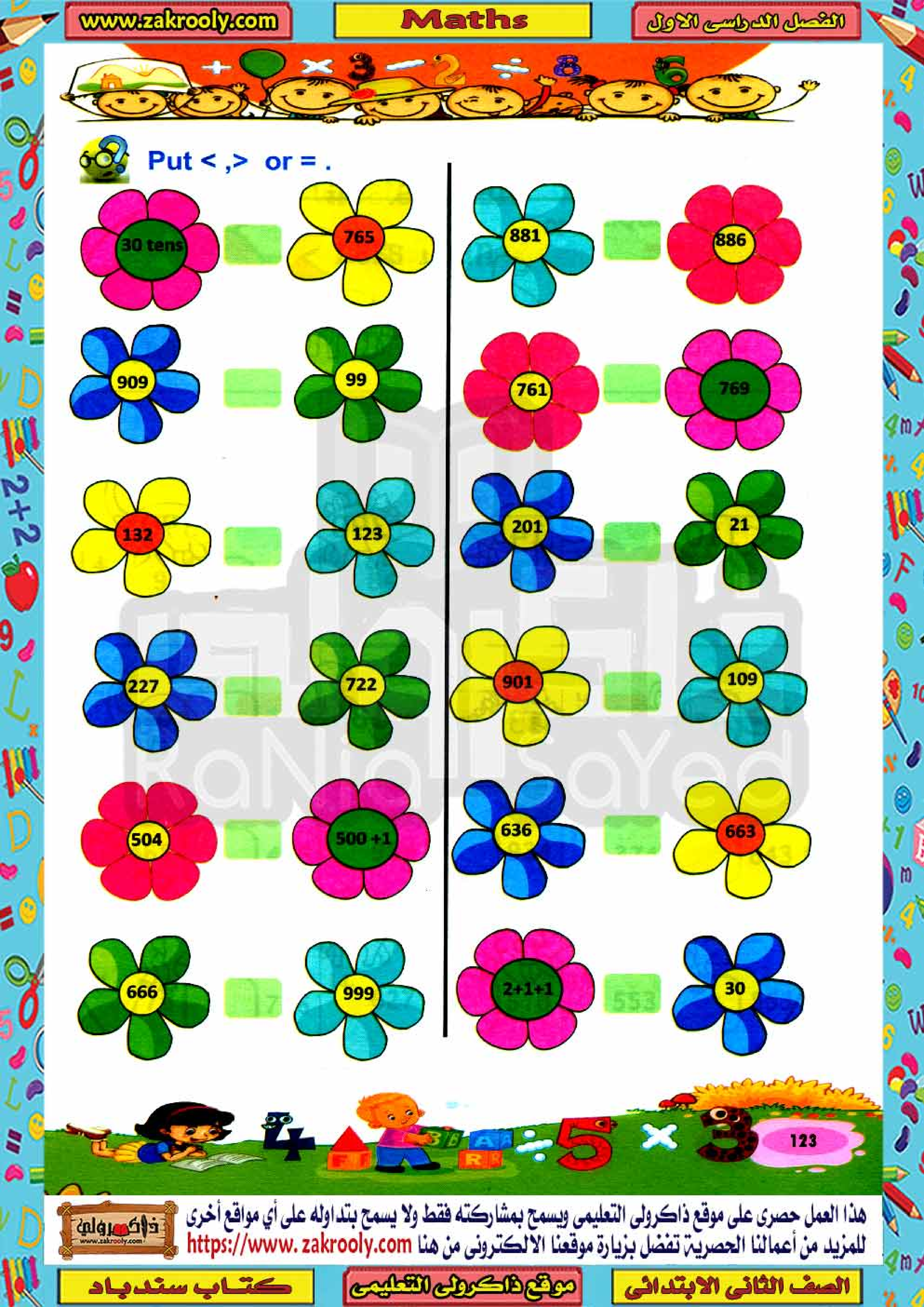
Climb up the stairs by writing the numbers after arranging it ascendingly .

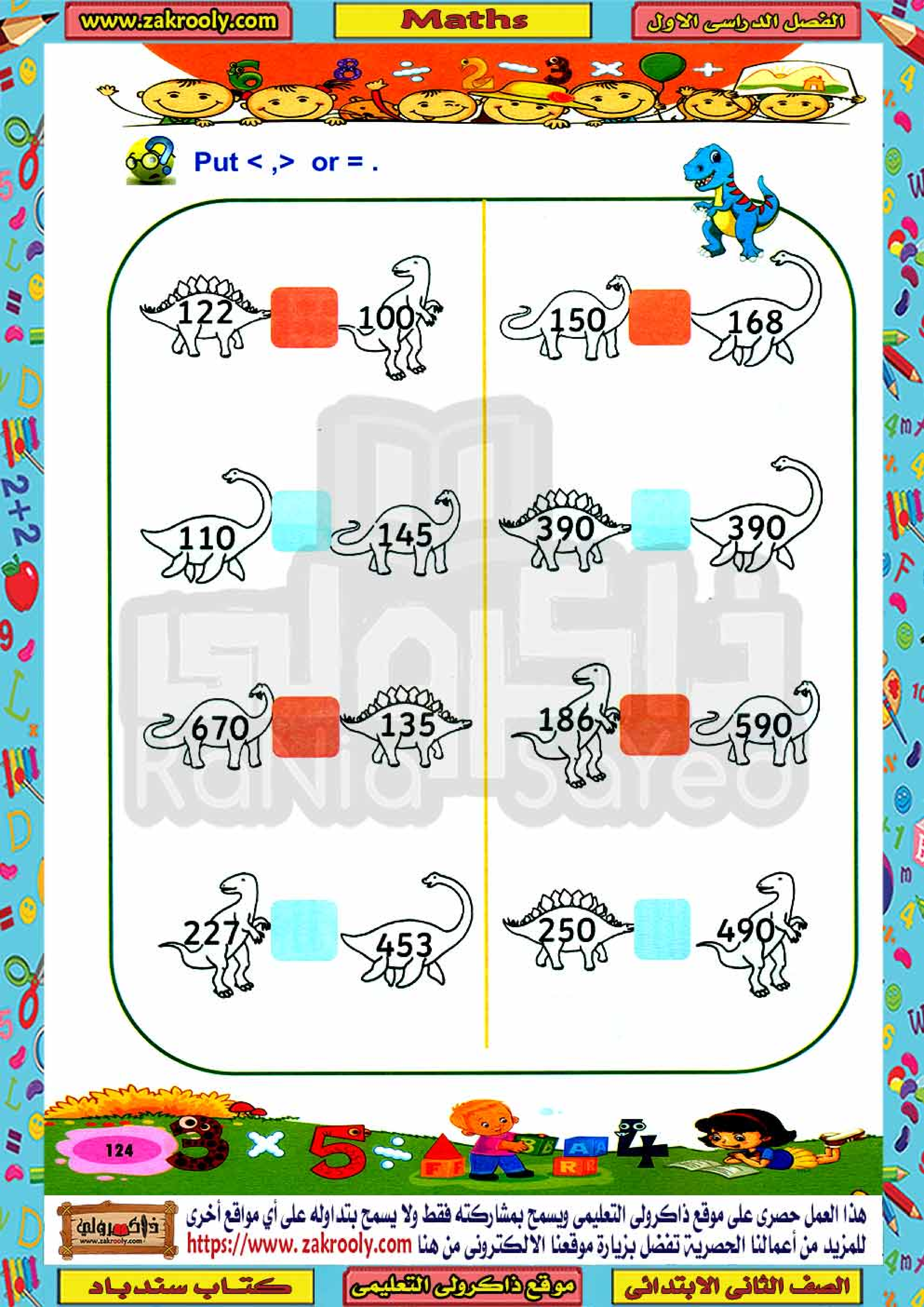
801 - 818 - 188 - 198

519 - 309 - 512 - 390



Put < or >or =


Put < ,> or = .
30 tens
765
881
886
909
99
761
769
132
123
201
21
227
722
901
109
504
500 +1
636
663
666
999
2+1+1
30
123



Put < ,> or = .

500~1000

> Greater Than

Less Than

or

Equal To =

Write in the symbol that makes the problem true.

>, < or =

1. 294 ☐ 533	2. 760 ☐ 670	3. 199 ☐ 200
4. 429 ☐ 409	5. 847 ☐ 847	6. 128 ☐ 356
7. 563 ☐ 737	8. 1000 ☐ 100	9. 909 ☐ 606
10. 465 ☐ 466	11. 984 ☐ 934	12. 374 ☐ 843
13. 776 ☐ 776	14. 627 ☐ 510	15. 553 ☐ 553



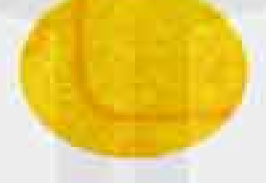


Compare beween each of the following and put the correct sign

a) 5 hundred , 5 units  50 tens + 10 ten

b) 7 hundred seventy five  7 hundred , 5 tens

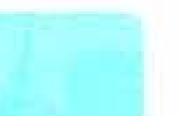
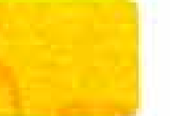
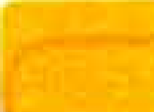
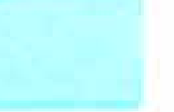
c) 853  800 + 20 + 3

d) 800 + 80 + 8  six hundred fifty eight

e) 900 + 9  900 + 90 + 9



Put the suitable sign (< , > or =) .

768		367	893		345
626		226	790		709
777		707	534		543
990		900	120		210
736		719	889		898
220		202	341		387





Circle the smallest number in each of the following .

130	111	113	311
54	544	545	454
448	484	148	48
796	769	697	976

Circle the greatest number in each of the following .

556	655	665	65
91	901	109	910
823	328	832	283
310	31	311	301



Jungle Adventure

Time to begin your journey to the mysterious golden temple.

Arrange the number in an ascending order .

215 234 226 235 230

_____ _____ _____ _____ _____

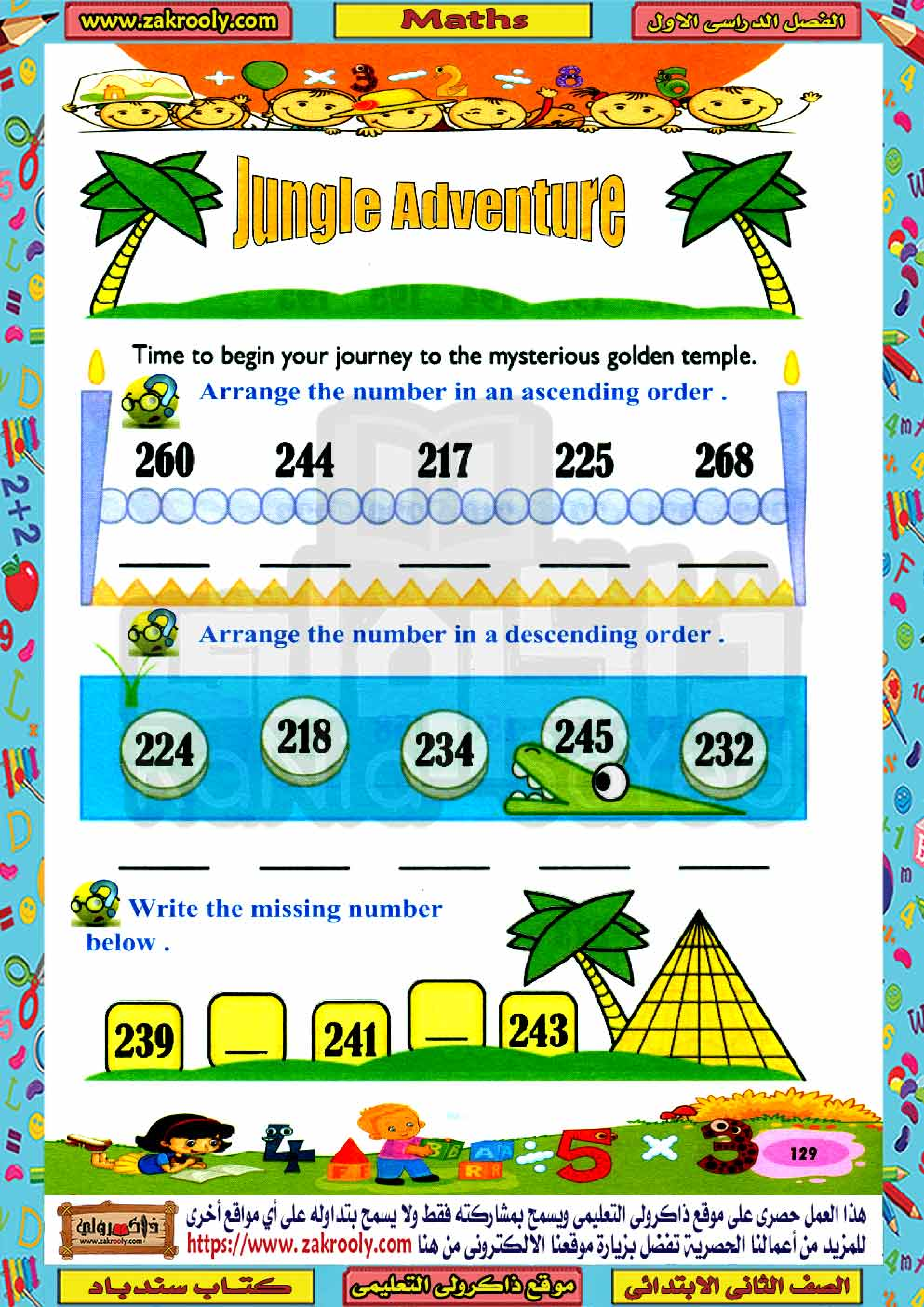
Arrange the number in a descending order .

205 232 224 203 217

_____ _____ _____ _____ _____

Write the missing number below .

277 __ 279 __ 281



Jungle Adventure

Time to begin your journey to the mysterious golden temple.

Arrange the number in an ascending order .

260 244 217 225 268

____ ____ ____ ____ ____

Arrange the number in a descending order .

224 218 234 245 232

____ ____ ____ ____ ____

Write the missing number below .

239 __ 241 __ 243



Arrange the number in an ascending order .

197 196 193 194 198 195

___ ___ ___ ___ ___ ___

223 221 224 219 220 222

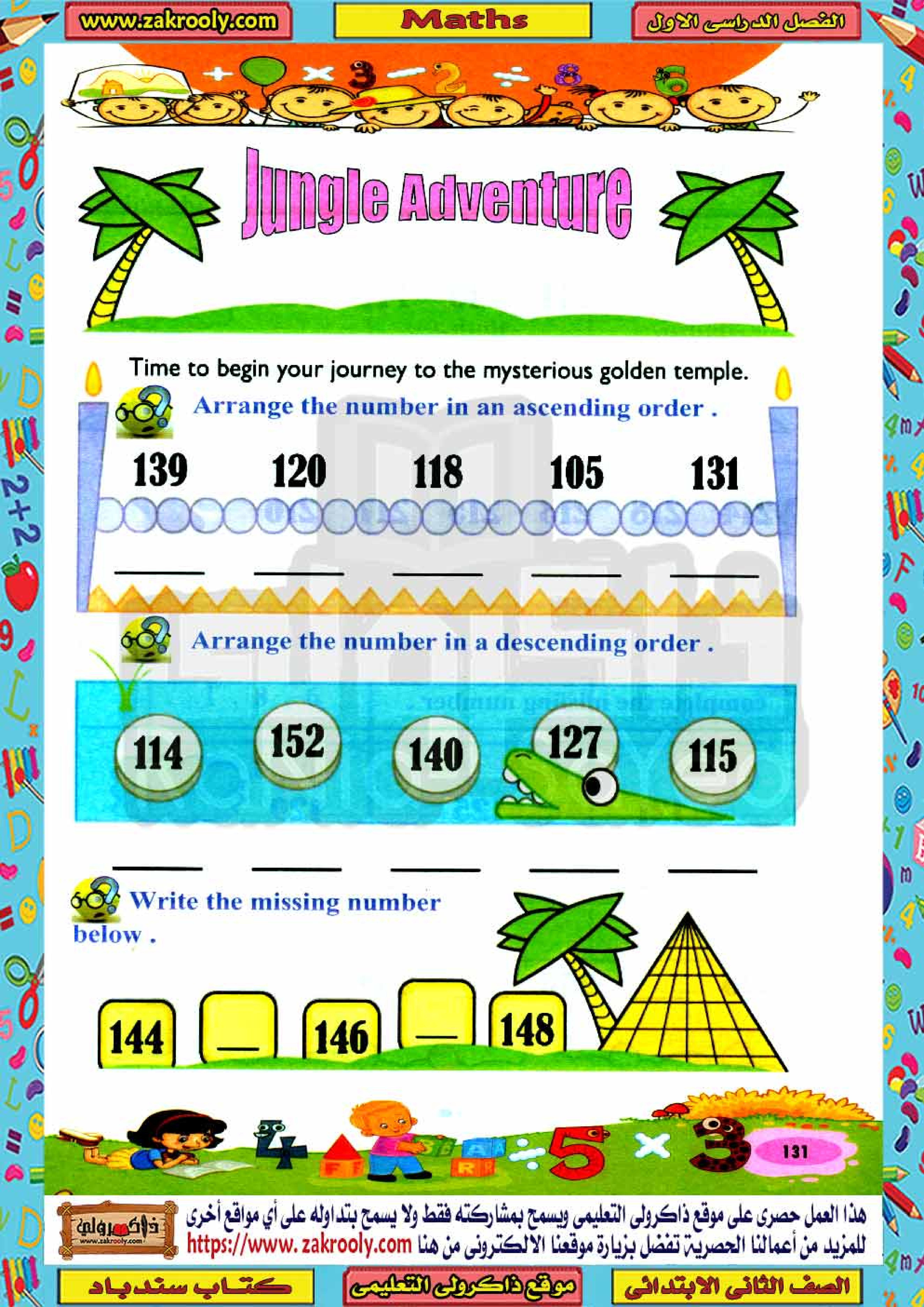
___ ___ ___ ___ ___ ___

155 159 154 156 158 157

___ ___ ___ ___ ___ ___

274 276 273 272 271 275

___ ___ ___ ___ ___ ___



Jungle Adventure

Time to begin your journey to the mysterious golden temple.

Arrange the number in an ascending order .

139 120 118 105 131

____ ____ ____ ____ ____

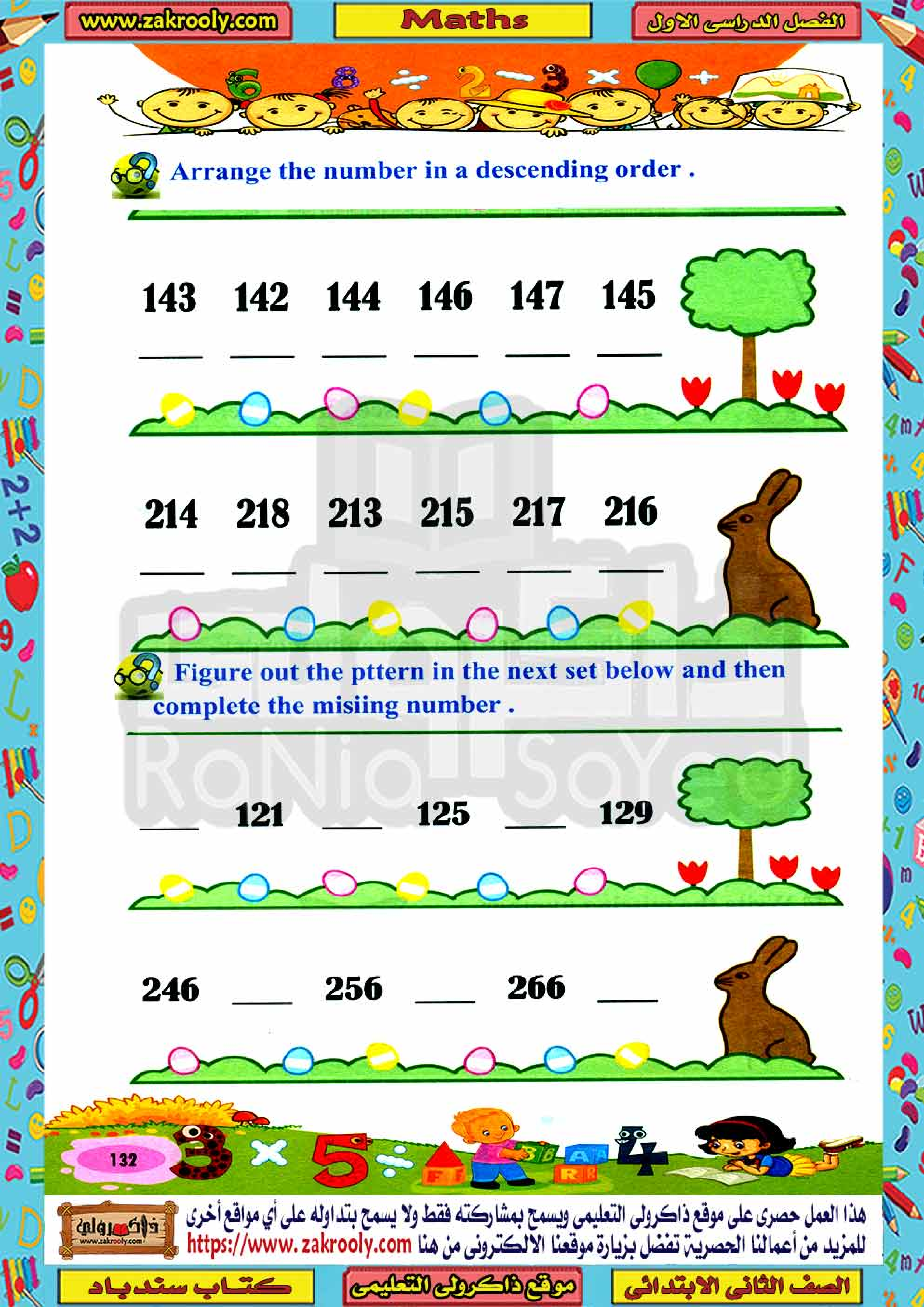
Arrange the number in a descending order .

114 152 140 127 115

____ ____ ____ ____ ____

Write the missing number below .

144 ___ 146 ___ 148



Arrange the number in a descending order .

143 142 144 146 147 145

____ ____ ____ ____ ____ ____

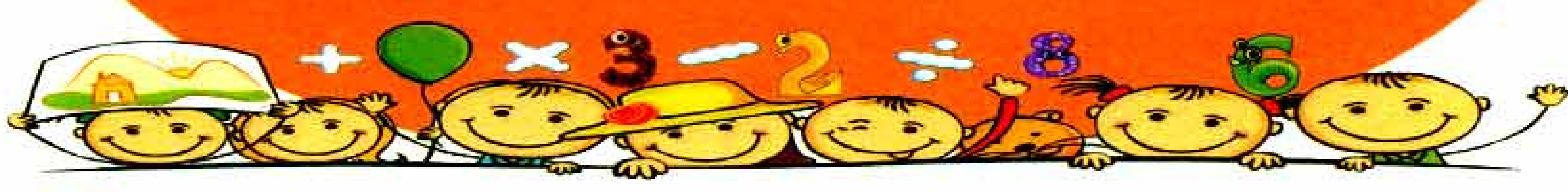
214 218 213 215 217 216

____ ____ ____ ____ ____ ____

Figure out the pttern in the next set below and then complete the misiing number .

____ 121 ____ 125 ____ 129

246 ____ 256 ____ 266 ____

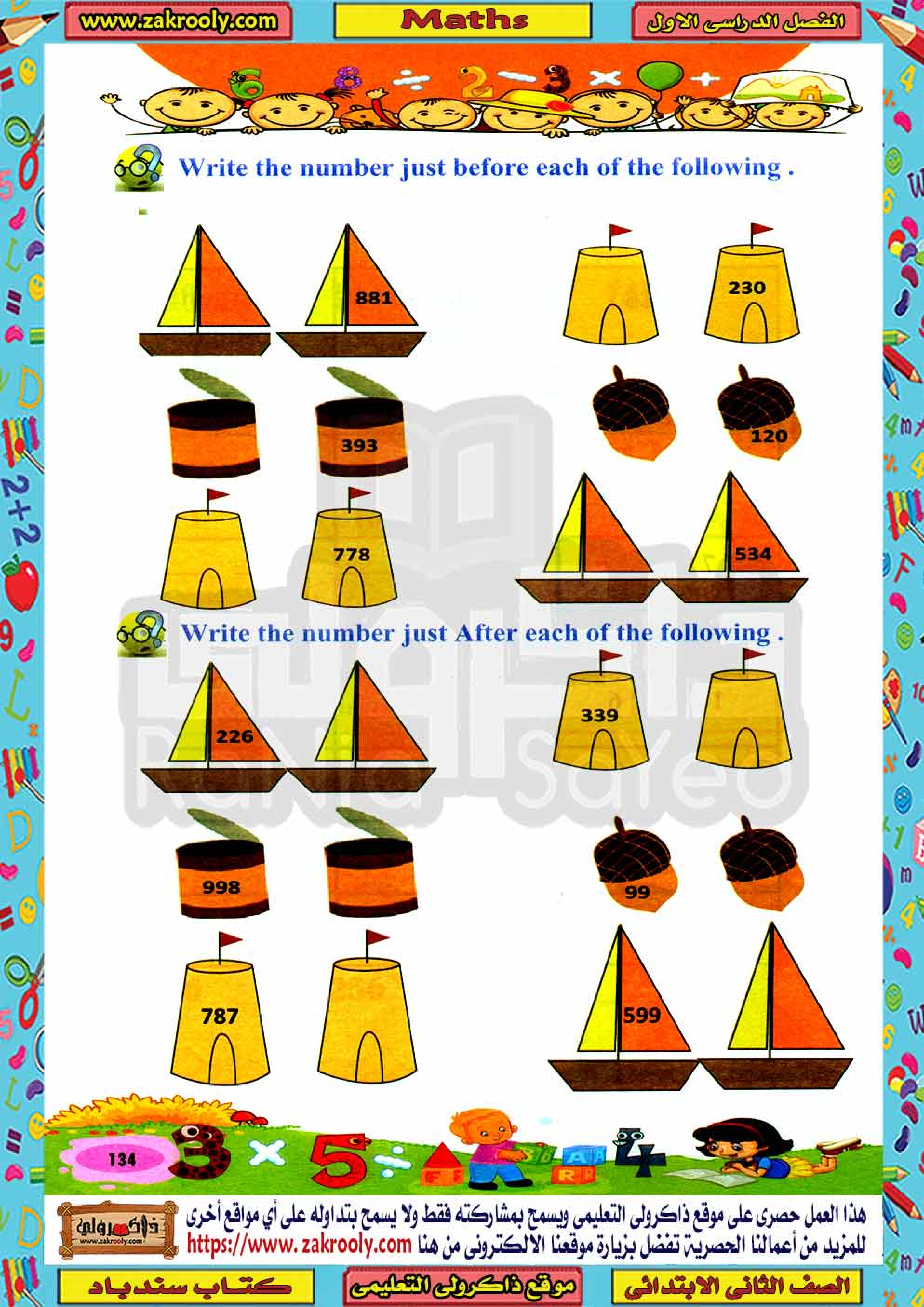


Form the largest and the smallest 3-digit numbers using the given digits .

Example

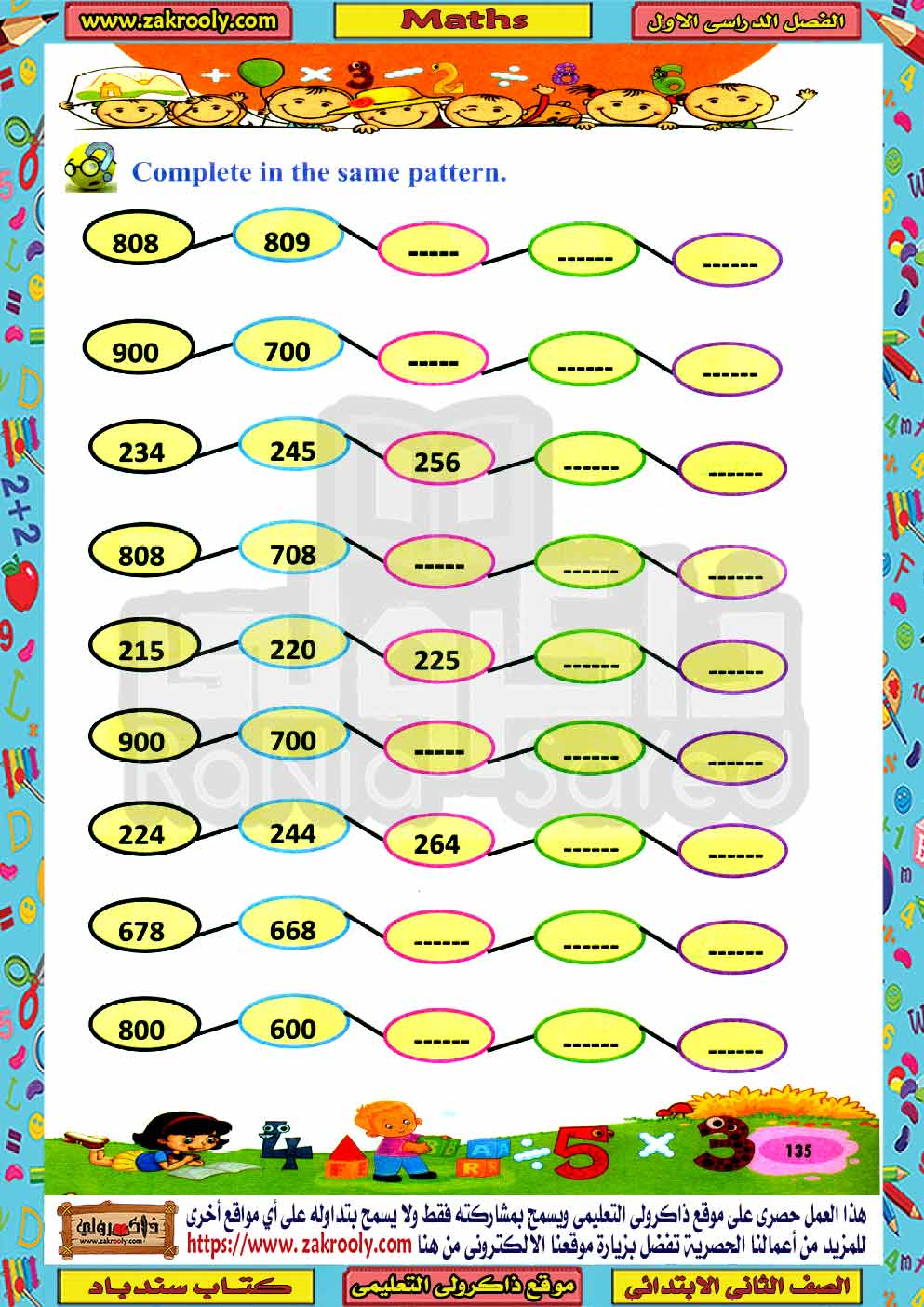
Digits	Smallest 3-digit number	Largest 3-digit number
6 , 3 , 8	368	863
9 , 8 , 5		
7 , 9 , 1		
0 , 5 , 3		
1 , 8 , 6		
9 , 1 , 0		
3 , 8 , 2		
6 , 9 , 2		





Write the number just before each of the following .

Write the number just After each of the following .



Complete in the same pattern.

808	809	-----	------	------
900	700	-----	------	------
234	245	256	------	------
808	708	-----	------	------
215	220	225	------	------
900	700	-----	------	------
224	244	264	------	------
678	668	------	------	------
800	600	------	------	------



Addition and Subtraction

Chapter 4
Lessons from
31-40

A word to the parents

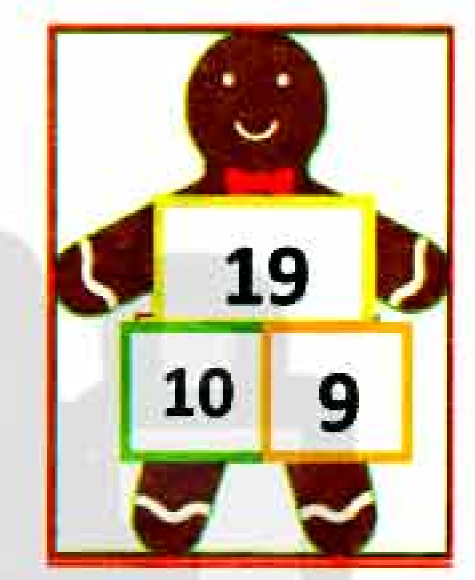
By the end of this lesson the student should be able to

- Add and subtract two 3-digit number with and without renaming .
- Understand story problems and connect it with addition and subtraction.

Now , lets remember together how to decompse (break down)any number .

Example 1

So if you want to decompose the following number (19) it will be decomposed into 10 + 9 .



So, if you wanted to add 13 + 4

First , use the Mental Math strategy to decompose number 13 into (10,3)



Second , start adding units together

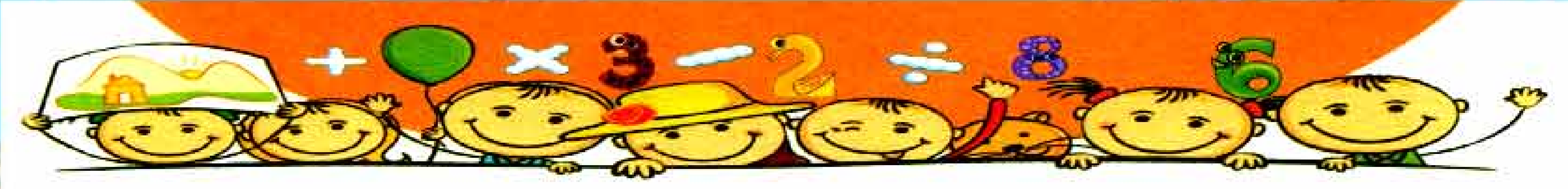
10 + 3 + 4

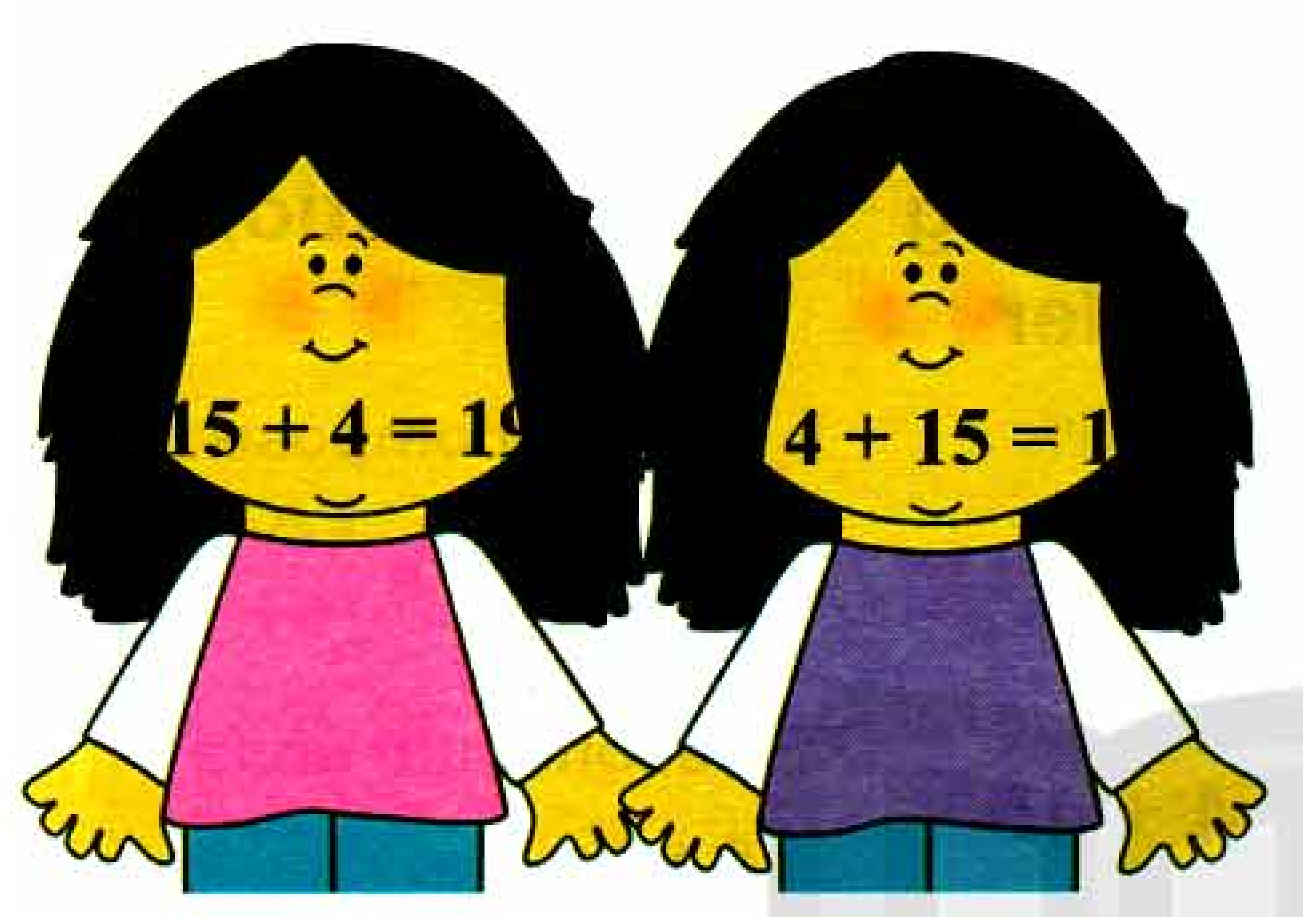
I know that 3 + 4 = 7 then ,

Add 10 + 7 = 17











Example 2

24 + 5

First , decompose 24

24
20 4

Rewrite it again 20 + 4 + 5

Second , add the units together.

4 + 5 = 9

20 + 9 = 29





Find the result .

Number	Changing order	Explanation
15 + 4	4 + 15	First decompose : 15 = 10 + 5 15 + 5 + 4 Second add units 5 + 4 = 9 Then add what is left . 10 + 9 =19
------------	13 + 6	First decompose : ------------------------ ------------------------ Second add units ------------------------ Then add what is left . ------------------------
12 + 7	---------------	First decompose : ------------------------ ------------------------ Second add units ------------------------ Then add what is left .







		--------------------
8 + 15	---------------	First decompose : -------------------- -------------------- Second add units -------------------- Then add what is left . --------------------
31 + 7	---------------	First decompose : -------------------- -------------------- Second add units -------------------- Then add what is left . --------------------
52 + 6	---------------	First decompose : -------------------- -------------------- Second add units -------------------- Then add what is left . --------------------





Fast Ten! 10 10 10 10

Add these numbers together. First, find the numbers that make ten, then add the rest. See the example below.

8 + 4 + 6 = 8 + 4 + 6 = 8 + 10 = 18

(4 + 6 = 10)

---

7 + 4 + 3 =

5 + 9 + 5 =

---

3 + 8 + 2 =

9 + 9 + 1 =

---

5 + 9 + 2 + 5 =

6 + 8 + 1 + 4 =

---

4 + 8 + 6 + 2 =

7 + 1 + 3 + 9 =

---

8 + 9 + 2 + 1 + 5 =

6 + 5 + 7 + 4 + 3 =



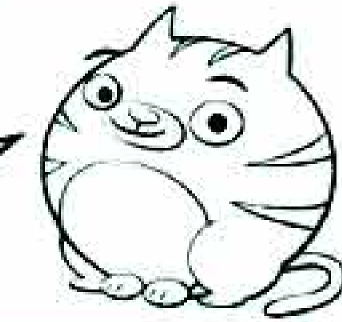


Count and Add Blocks

***Directions**: Count the blocks, and then write how many there are.*

Example:

23
+ 4
27 in all



Tip: Write the number 10 above each group of 10 blocks.

13
+ 5

19
+ 3

15
+ 8

21
+ 4

12
+ 6

17
+ 2



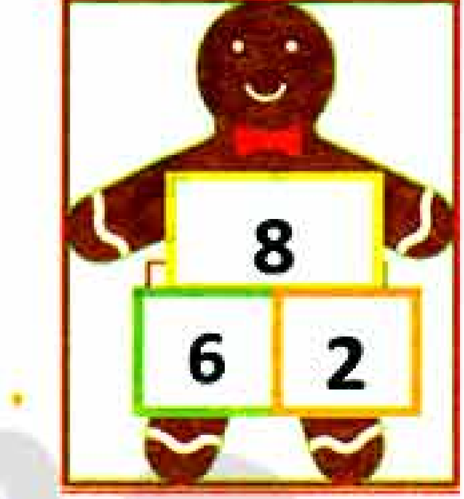




Do you know that in subtraction order is very important .

so when you subtract start with the bigger number .
First ,decompose the smaller number in a way that can be sutracted from the bigger number to give you ten or one of it's multiples (multiples are 10 , 20 , 30 , 40 ……..) as a result .

Example 1



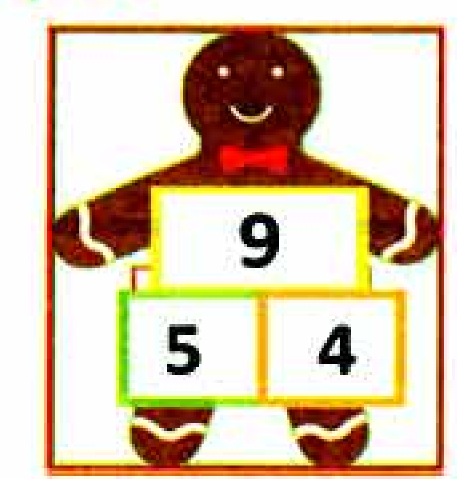
16 - 8

First , start by decomposing
the smaller number (8) in to "6 , 2 "
then , rewrite it again after decomposing .
16 – 6 – 8
Subtract 16 – 6 to get 10 or one of it's multiples
So 16 – 6 = 10
Finally , subtract what is left
10 – 8 = 2

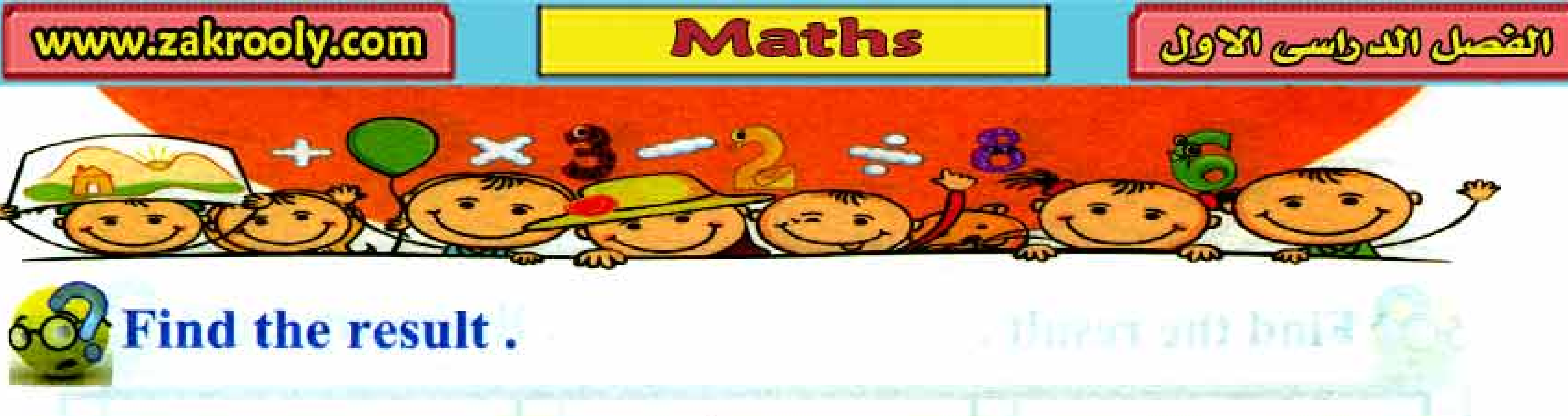
Example 2

25 - 9

First , start by decomposing
Decompose the smaller number (9) in to "5 , 4 "
then , rewrite it again after decomposing .
25 –5 – 4
Subtract 25 – 5 to get 10 or one of it's multiples
So 25 – 5 = 20
Finally , subtract what is left
20 – 4 =16





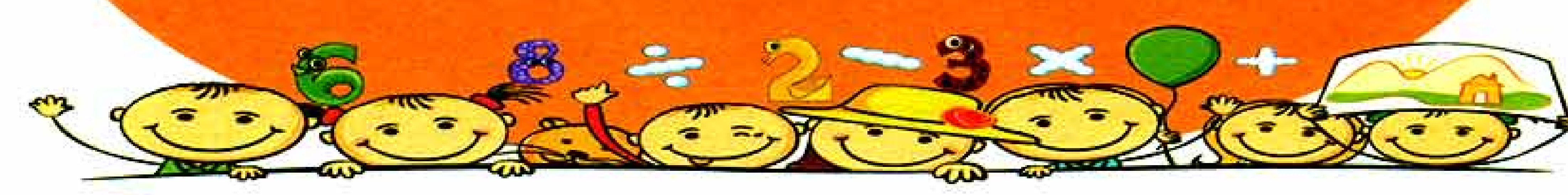


Find the result .

Number	Explanation
	First , start by decomposing
15 -7	
13 - 8	
18 - 9	
23 - 7	
14 - 6	
19 - 3	
35 - 7	









Find the result .

35 + 20 = -----	43 + 6 = -----	56 + 30 = -----
67 + 10 = -----	62 + 5 = -----	84 + 3 = -----
30 + 60 = -----	33 + 5 = -----	14 + 6 = -----
28 + 40 = -----	92 + 6 = ------	22 + 7 = -----
		31 + 30 = -----
		71 + 5 = -----
		32 + 6 = -----

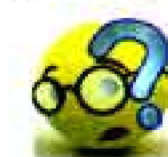
Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100








Find the result .

35 -12 = -----	26 - 8 = -----	65 - 30 = -----
99 - 21 = -----	84 - 9 = -----	52 - 13 = -----
60 - 20 = -----	33 - 6 = -----	12 - 8 = -----
37 - 8 = -----	21 - 4 = ------	33 – 7 = -----
		31 - 10 = -----
		81 - 5 = -----
		23 - 6 = -----



Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



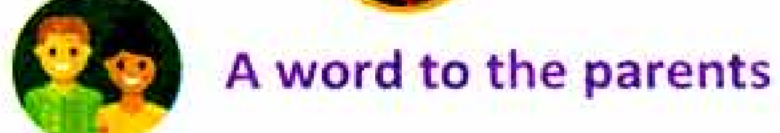








Decomposing 2-digit number



A word to the parents

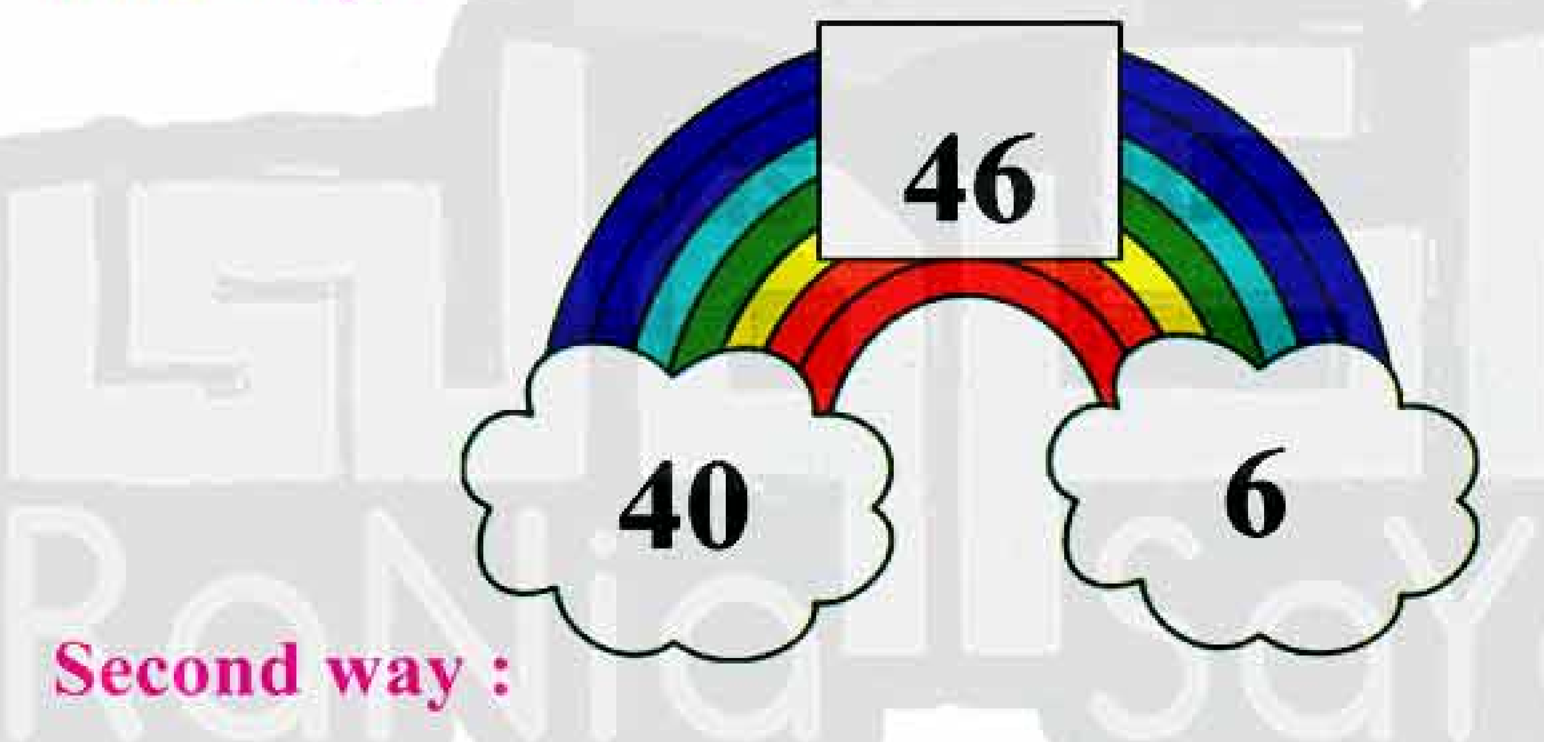
By the end of this lesson your child will be able to decompose any 2 or 3 –digit number in two ways .

Example

Decompose 46

When you decompose(break down) a number divide it into tens and units

First way :



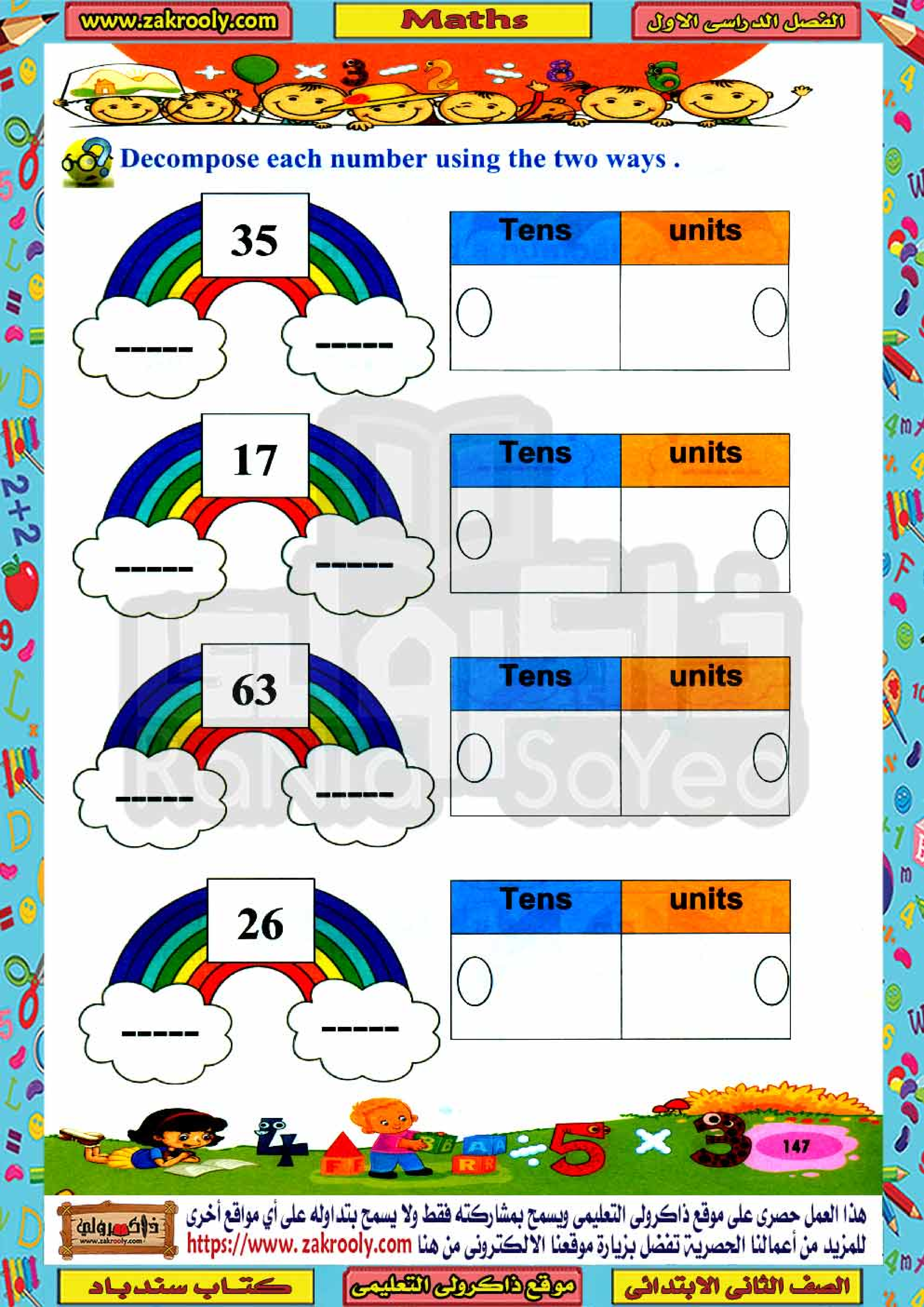
Second way :

By using sticks as tens and dots as units

Tens	units
(4) ||||	• • • • • • (6)







Decompose each number using the two ways .

35

------ ------

Tens	units
◯	◯

17

------ ------

Tens	units
◯	◯

63

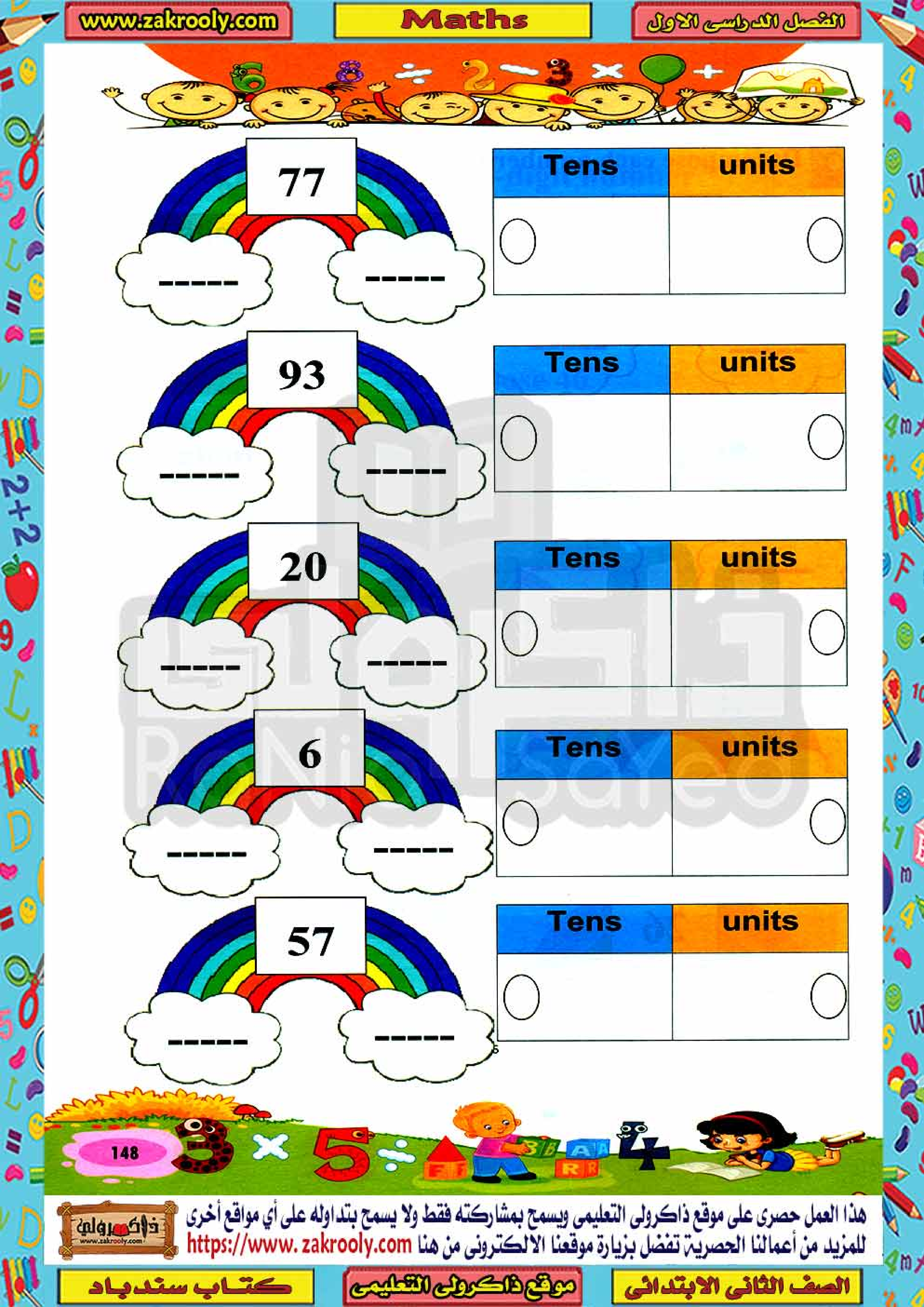
------ ------

Tens	units
◯	◯

26

------ ------

Tens	units
◯	◯



Tens	units
○	○

Tens	units
○	○

Tens	units
○	○

Tens	units
○	○

Tens	units
○	○





Adding and subtracting without renaming using the two ways of decomposing a number .

A word to the parents

By the end of this lesson your child will be able to add and subtract using the two ways of decomposing a number .

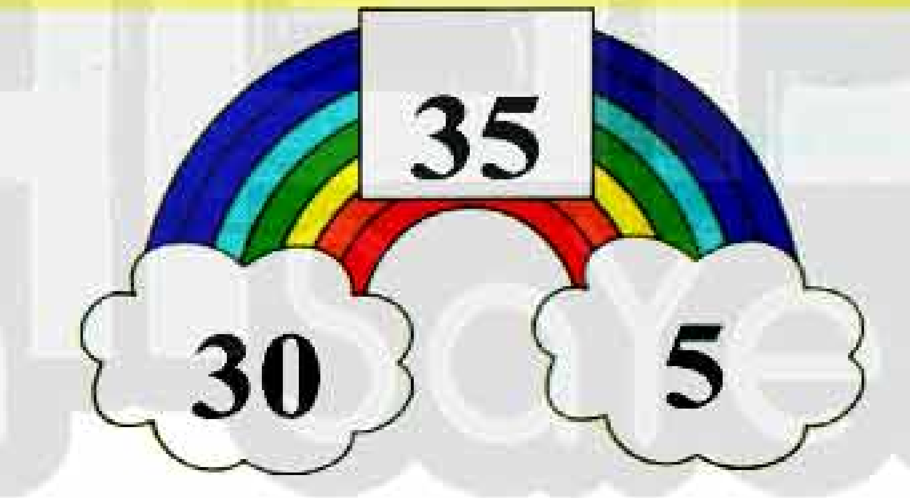
Example

23 + 35 = ---------

First :

Decompose each number into tens and units as we learned from the previous lesson.



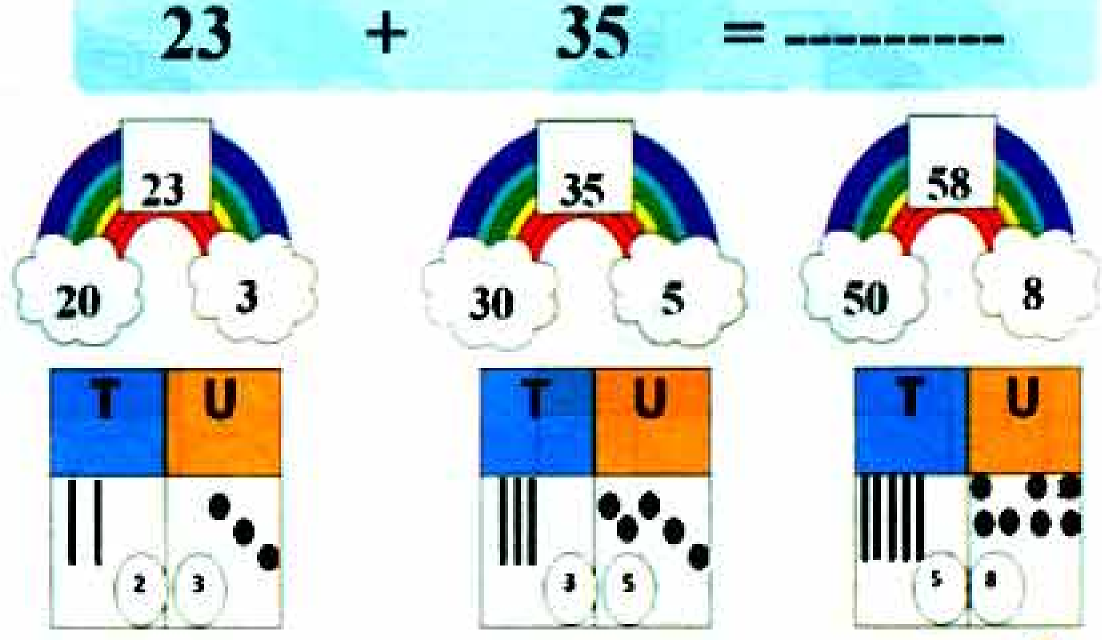


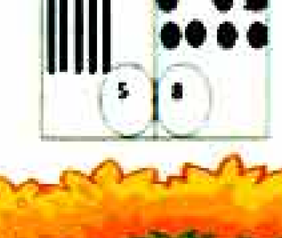
Second :

23 + 35 = ---------

Add the units together and

Write it and then add the tens together

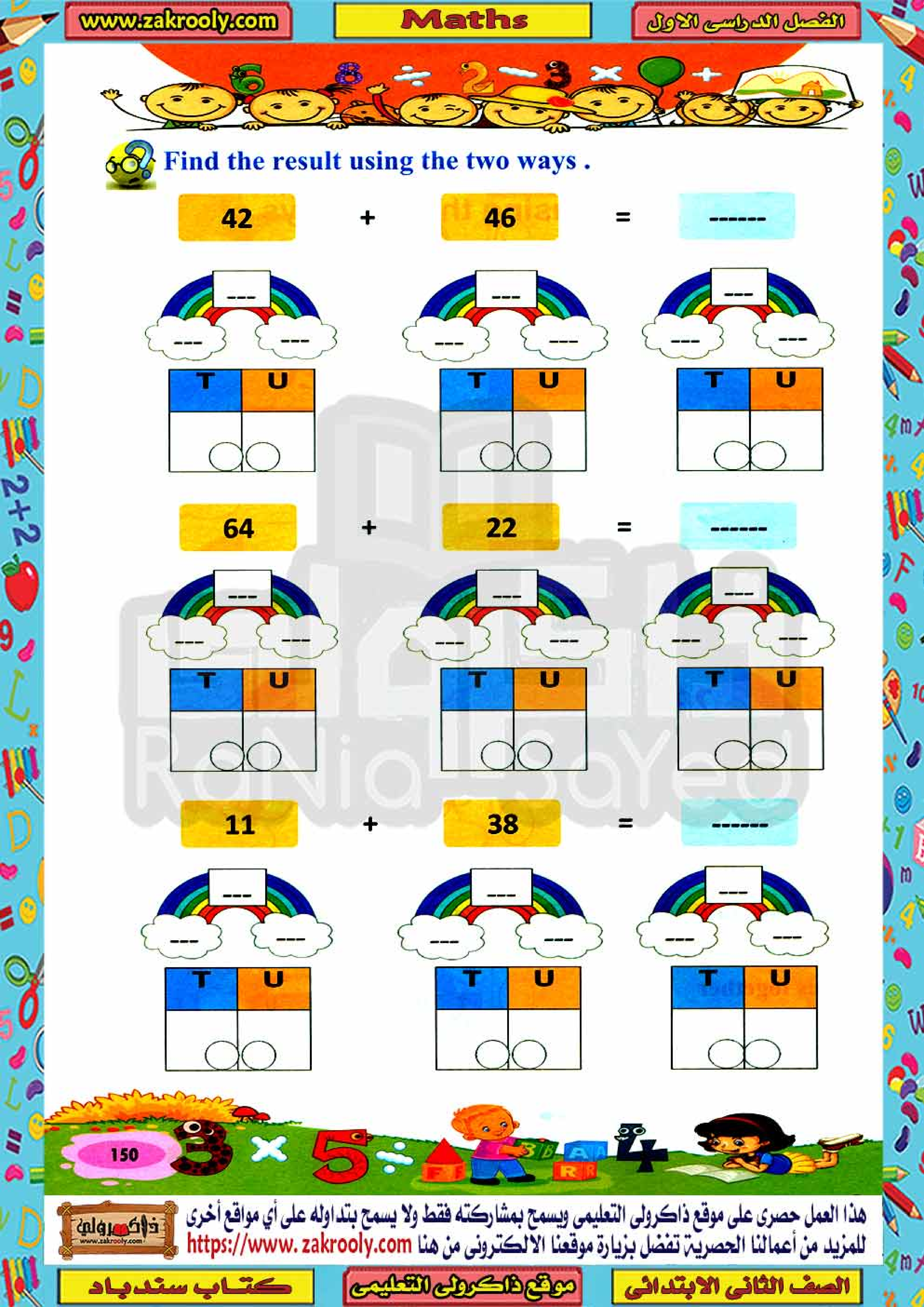












Find the result using the two ways .

42 + 46 = ------

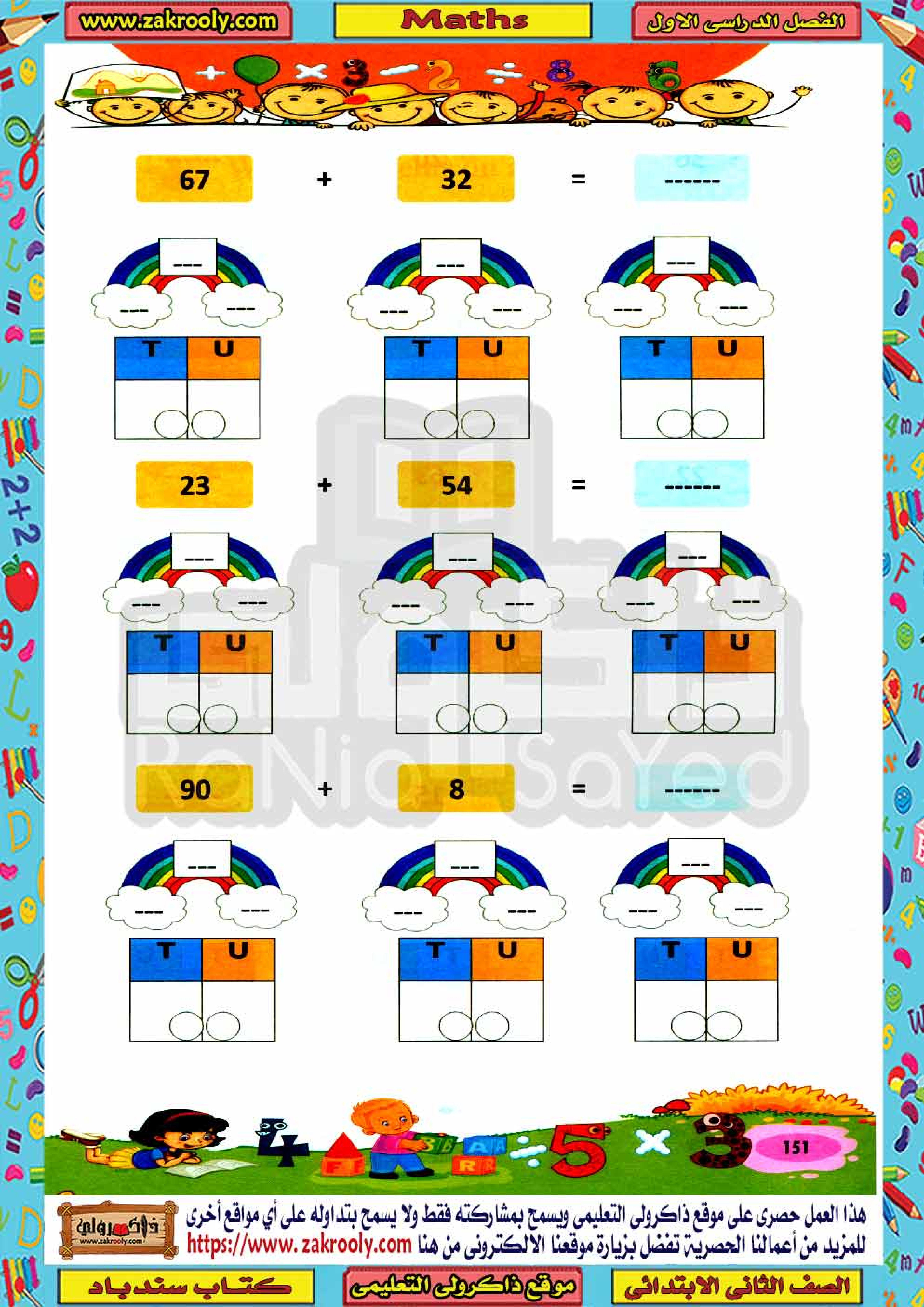
T	U

64 + 22 = ------

T	U

11 + 38 = ------

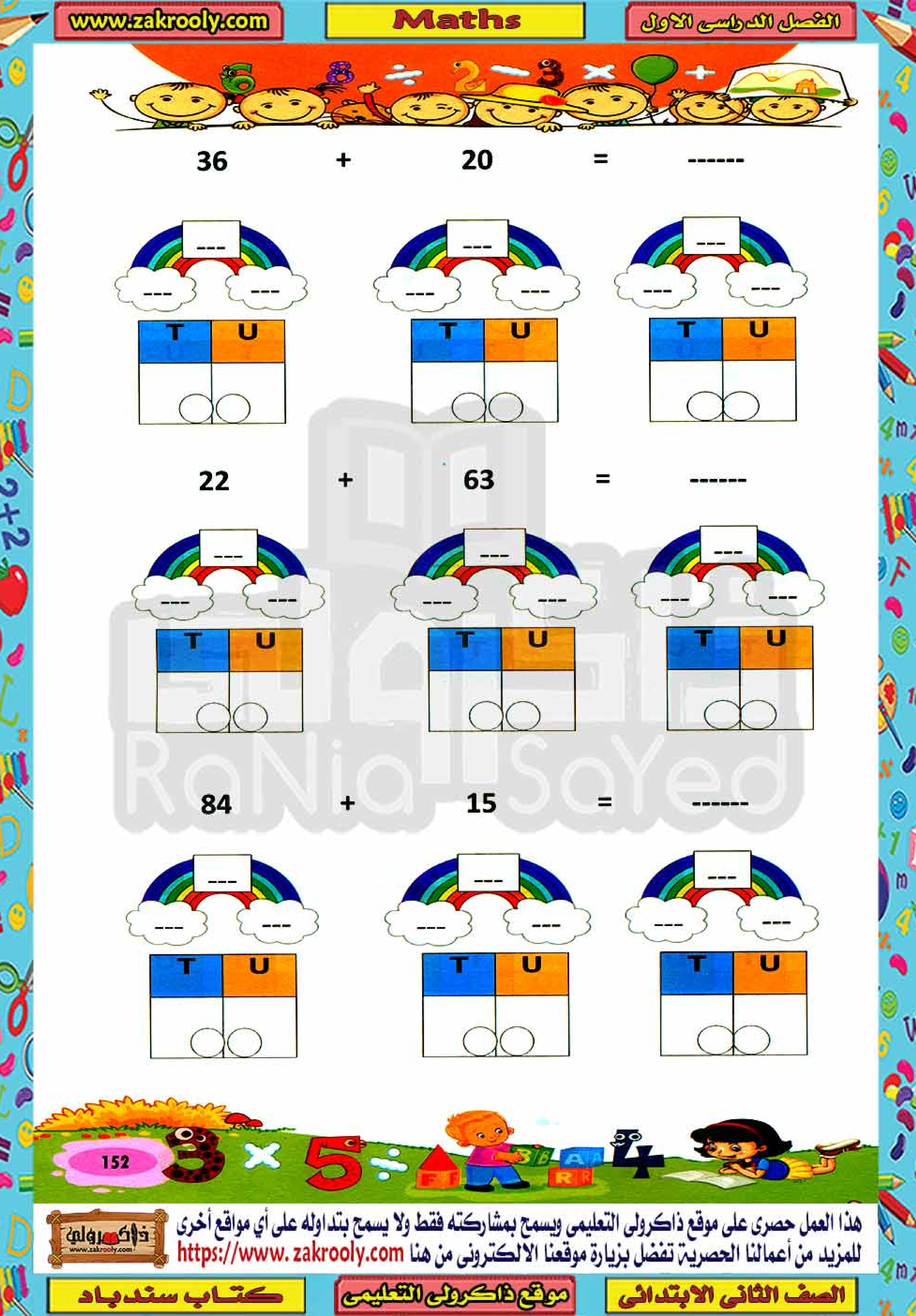
T	U


67
+
32
=

T
U
23
+
54
=

90
+
8
=

151



36 + 20 = ------

T	U

T	U

T	U

22 + 63 = ------

T	U

T	U

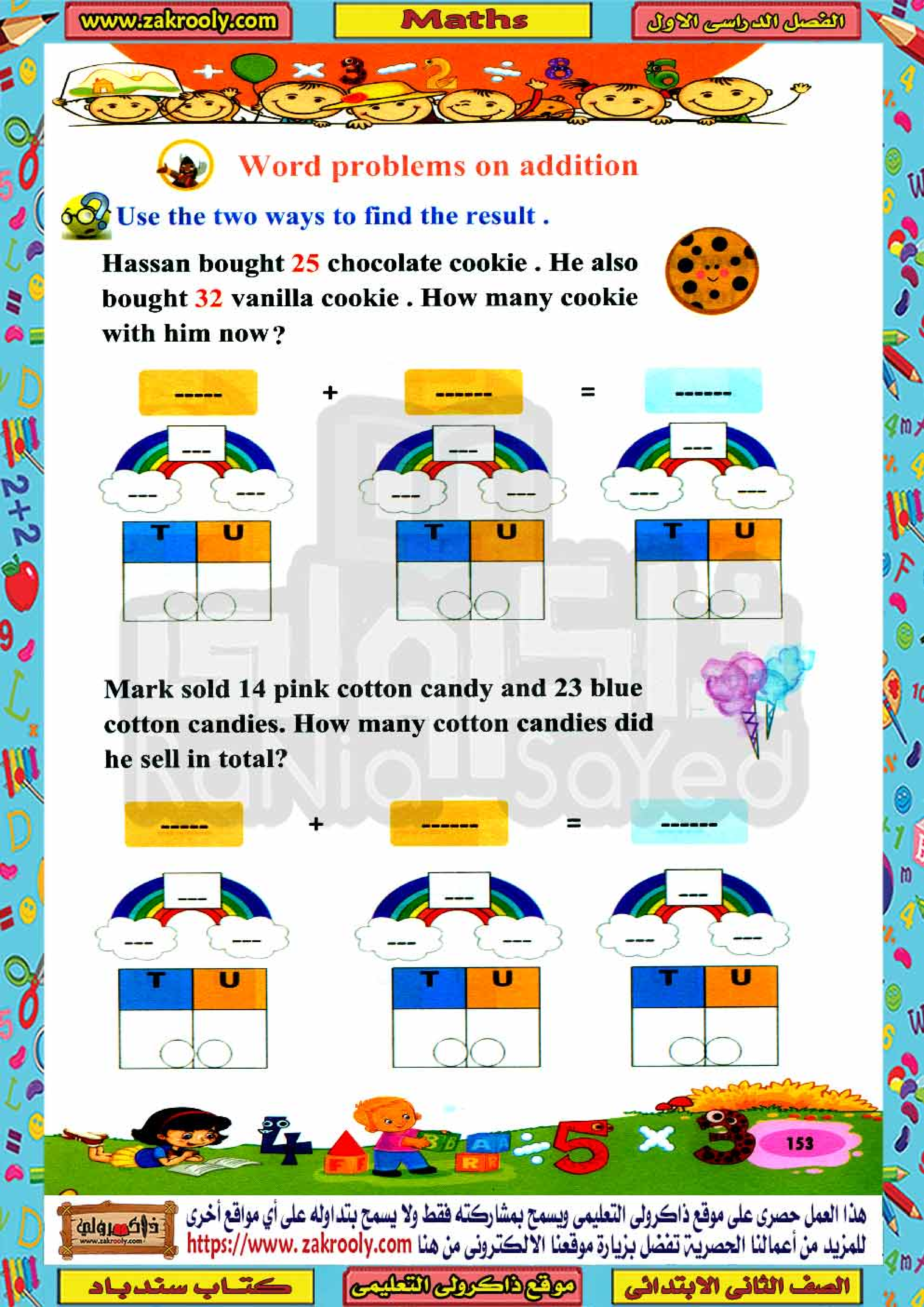
T	U

84 + 15 = ------

T	U

T	U

T	U



Word problems on addition

Use the two ways to find the result .

Hassan bought 25 chocolate cookie . He also bought 32 vanilla cookie . How many cookie with him now ?

----- + ------ = ------

T	U

T	U

T	U

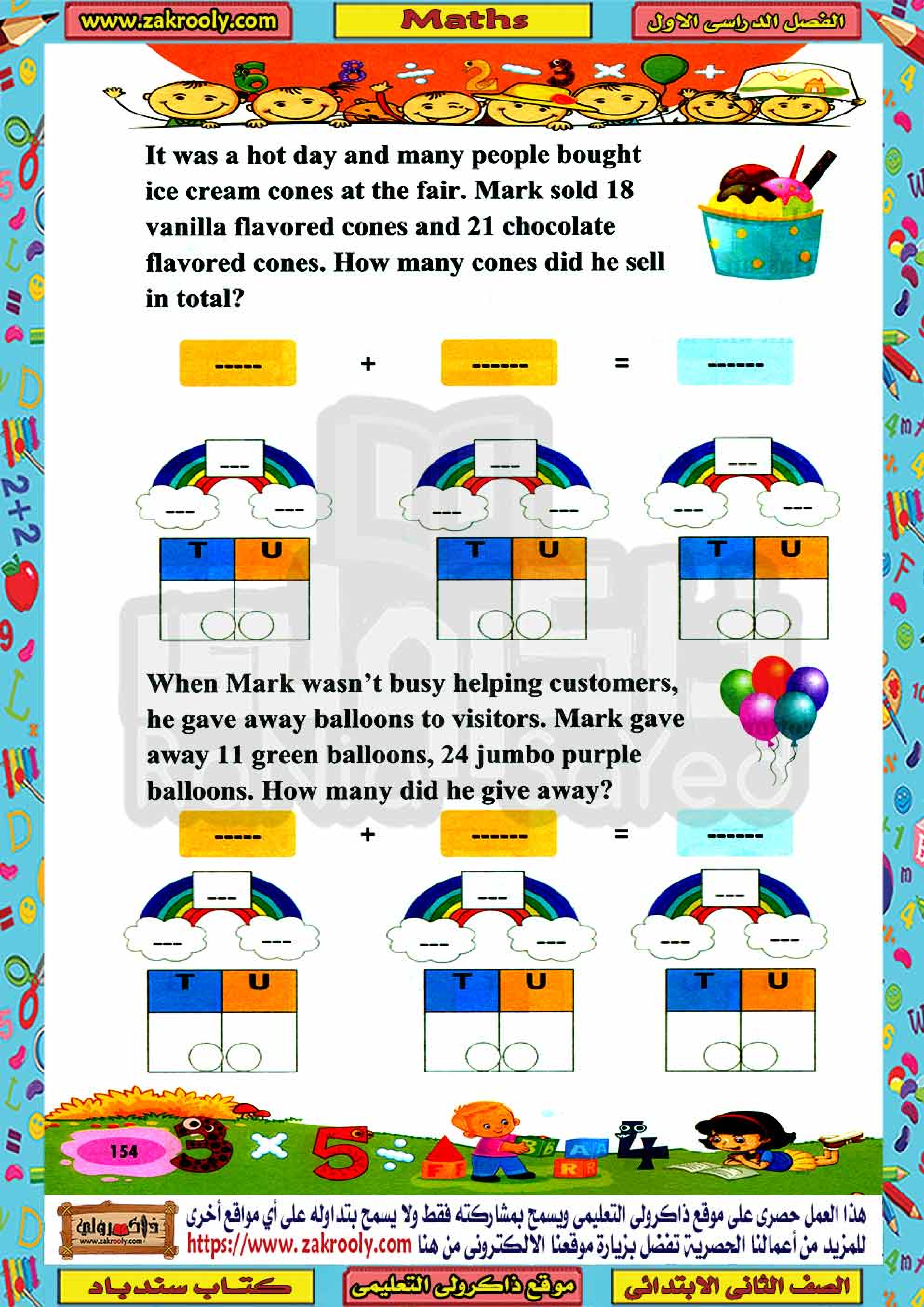
Mark sold 14 pink cotton candy and 23 blue cotton candies. How many cotton candies did he sell in total?

----- + ------ = ------

T	U

T	U

T	U



It was a hot day and many people bought ice cream cones at the fair. Mark sold 18 vanilla flavored cones and 21 chocolate flavored cones. How many cones did he sell in total?

----- + ------ = ------

T	U

T	U

T	U

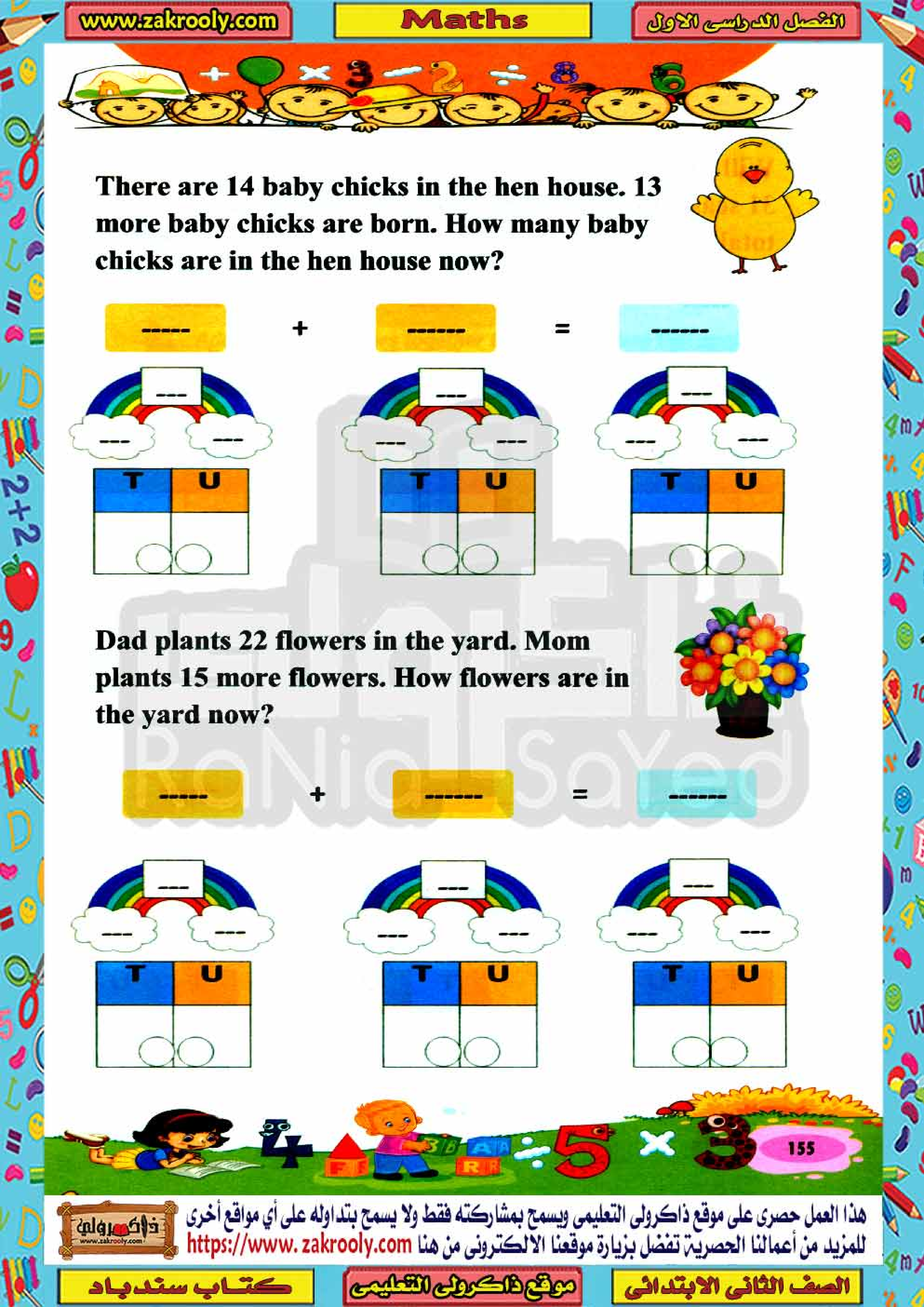
When Mark wasn't busy helping customers, he gave away balloons to visitors. Mark gave away 11 green balloons, 24 jumbo purple balloons. How many did he give away?

----- + ------ = ------

T	U

T	U

T	U

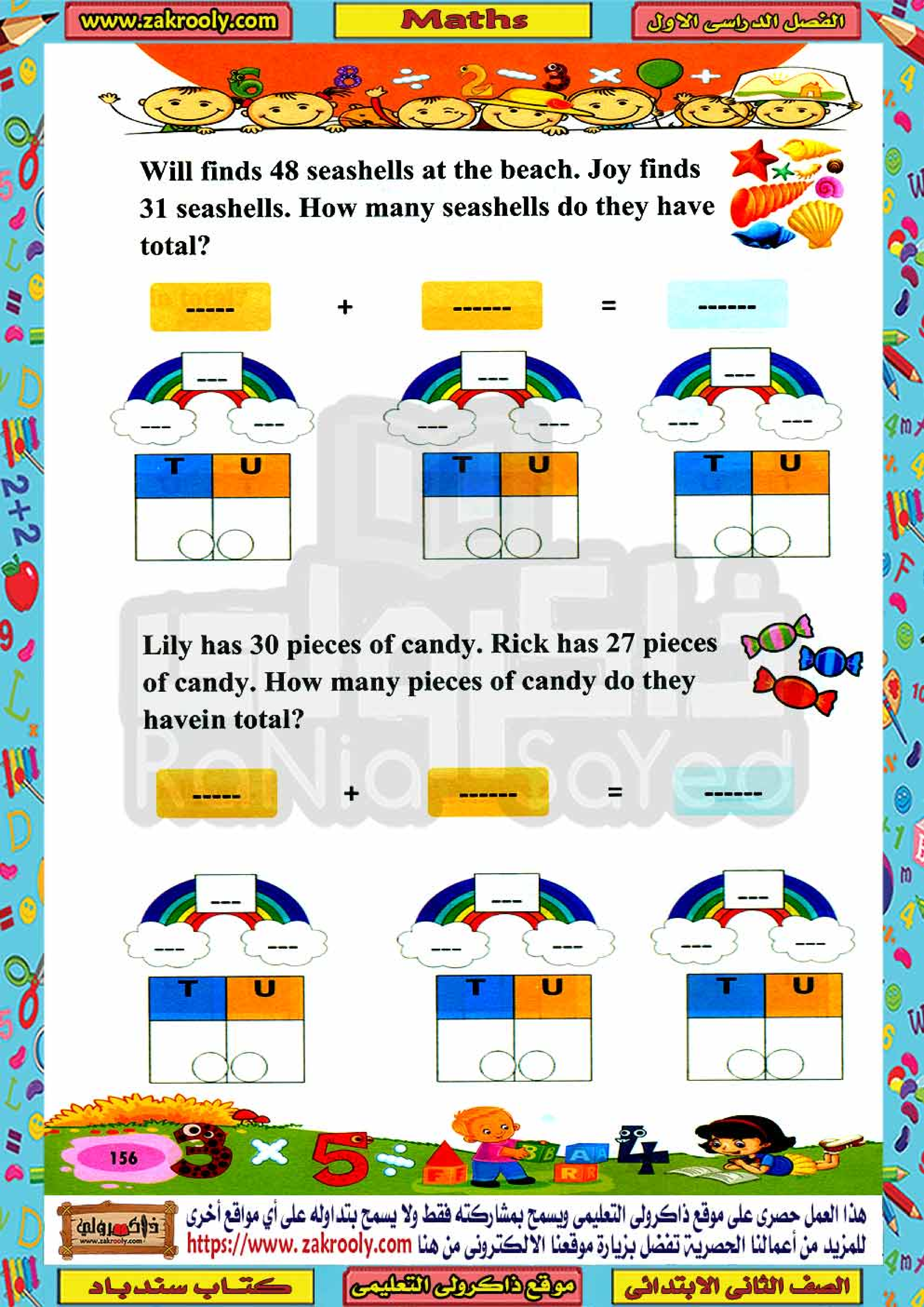


There are 14 baby chicks in the hen house. 13 more baby chicks are born. How many baby chicks are in the hen house now?

----- + ------ = ------

Dad plants 22 flowers in the yard. Mom plants 15 more flowers. How flowers are in the yard now?

----- + ------ = ------



Will finds 48 seashells at the beach. Joy finds 31 seashells. How many seashells do they have total?

----- + ------ = ------

T	U

T	U

T	U

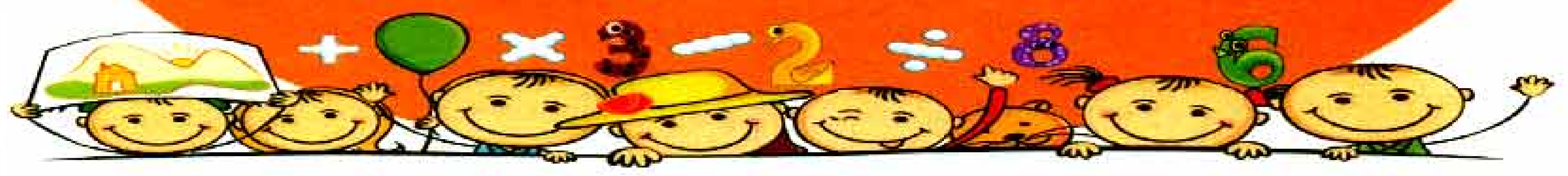
Lily has 30 pieces of candy. Rick has 27 pieces of candy. How many pieces of candy do they havein total?

----- + ------ = ------

T	U

T	U

T	U





 Find the result .

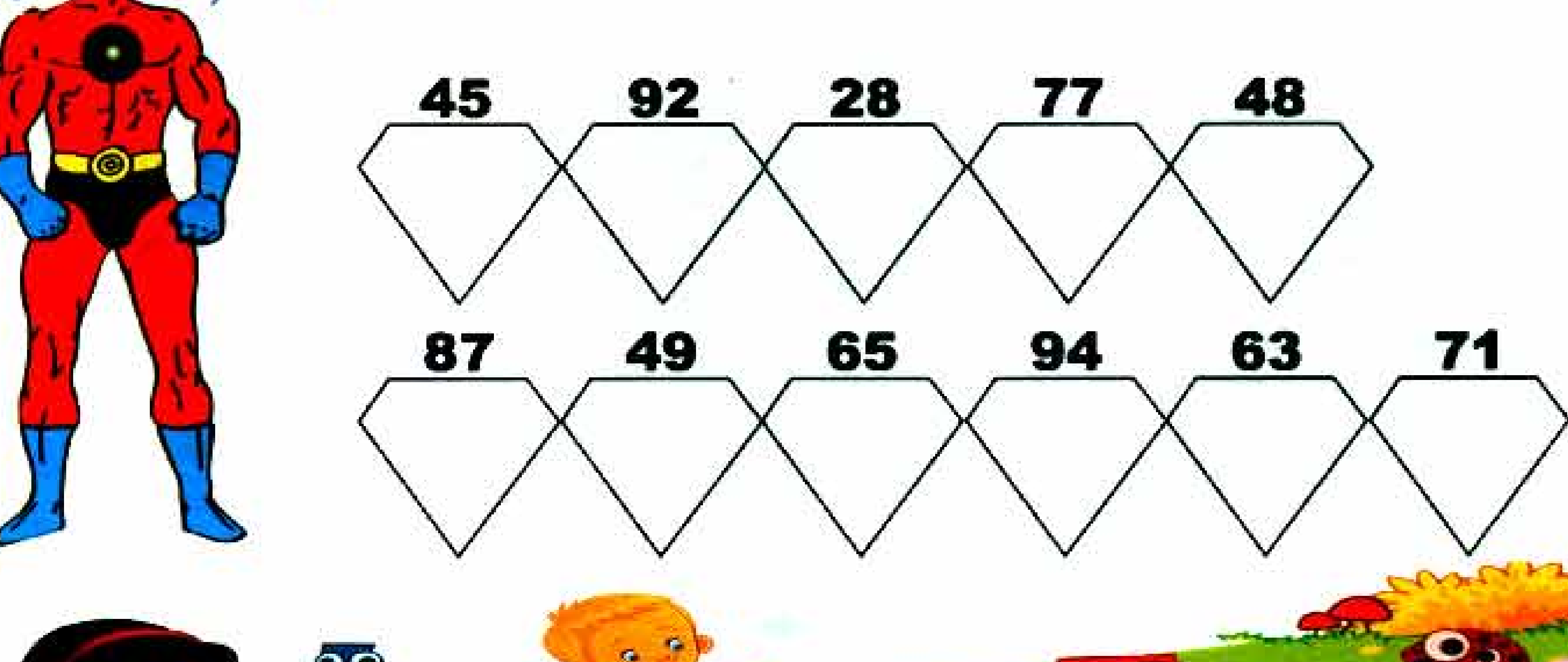
Name That Hero!,

Add the two numbers together to find the letters that spell out the secret words. The secret words are the hero's code name!

A. 23 + 64	**R.** 33 + 30	**I.** 60 + 17	**N.** 21 + 21
A. 15 + 30	**L.** 25 + 24	**U.** 60 + 32	**T.** 11 + 60
O. 35 + 13	**B.** 43 + 22	**E.** 11 + 83	**D.** 14 + 14



Write each letter in the super shape below.

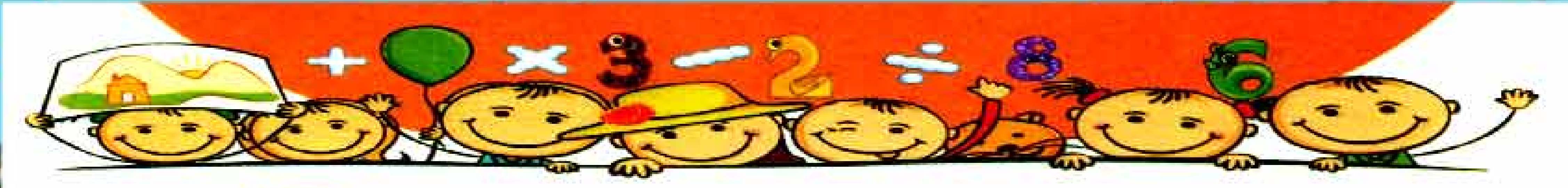






Find the result .

266 + 133	123 + 345	326 + 242
453 + 226	241 + 132	564 + 204
333 + 245	221 + 366	437 + 350
523 + 352	278 + 311	354 + 122



Subtracting 2-digit number



A word to the parents

By the end of this lesson your child will be able to add and subtract using the two ways of decomposing a number.

Example

24 – 11 =

First :

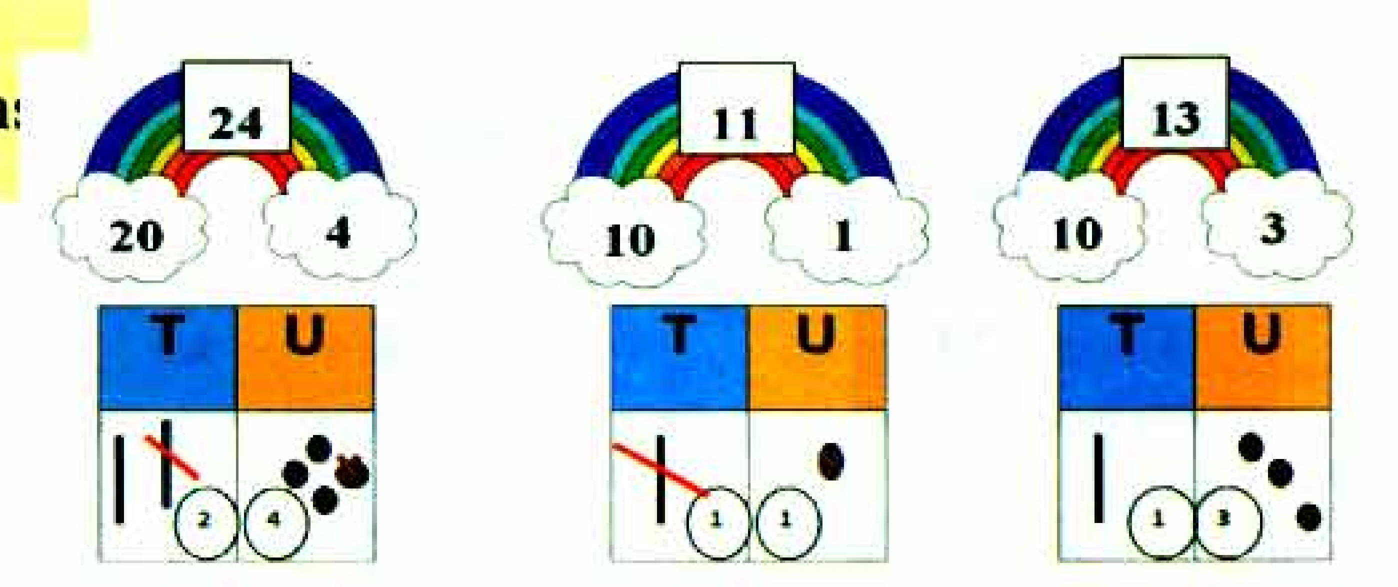
Decompose each number into tens and units as we learned from the previous lesson.



Second :

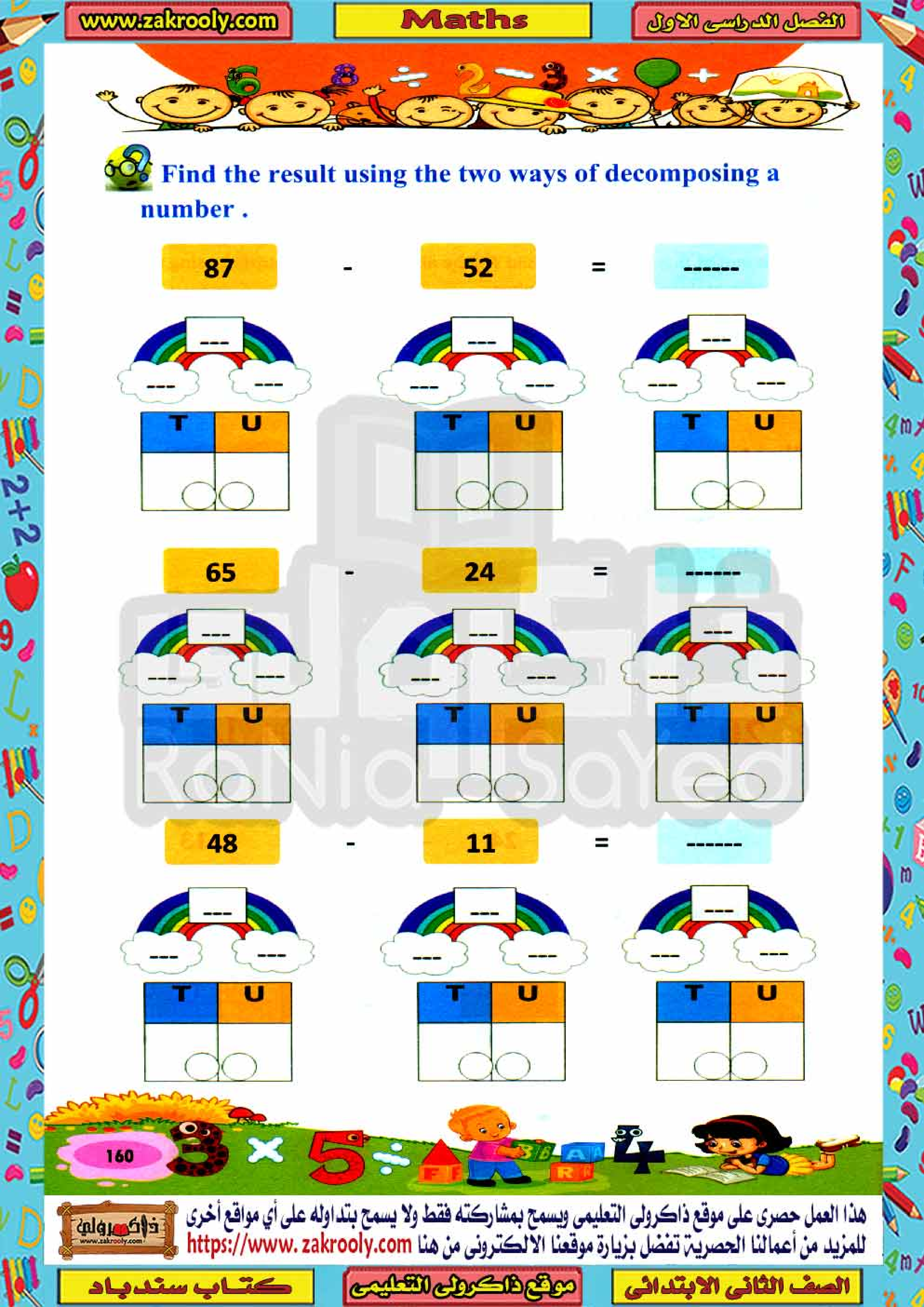
24 – 11 = 13

Subtract the units then subtract the tens









Find the result using the two ways of decomposing a number .

87 - 52 = ------

T	U

T	U

T	U

65 - 24 = ------

T	U

T	U

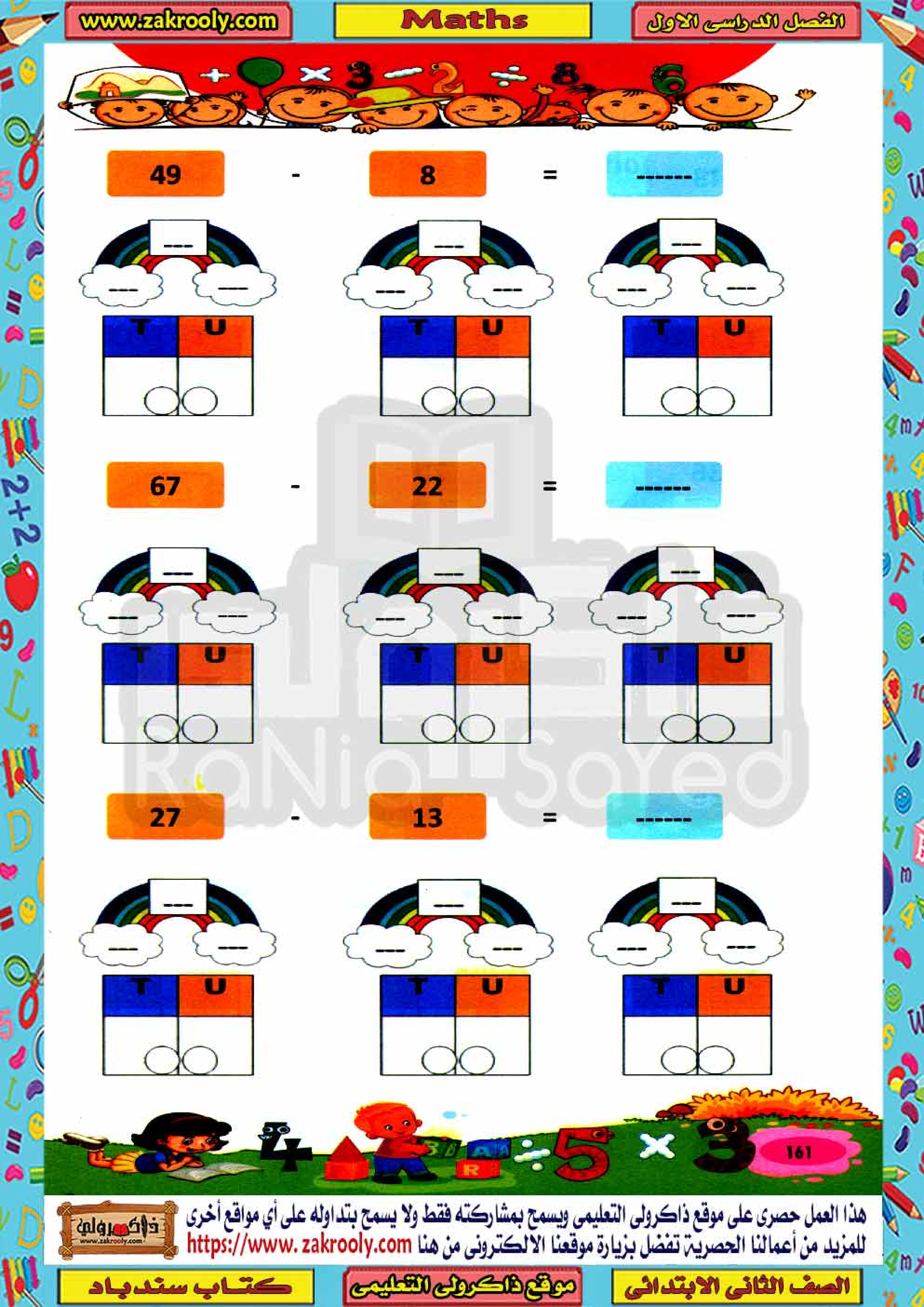
T	U

48 - 11 = ------

T	U

T	U

T	U



49 - 8 = ------

T	U

T	U

T	U

67 - 22 = ------

T	U

T	U

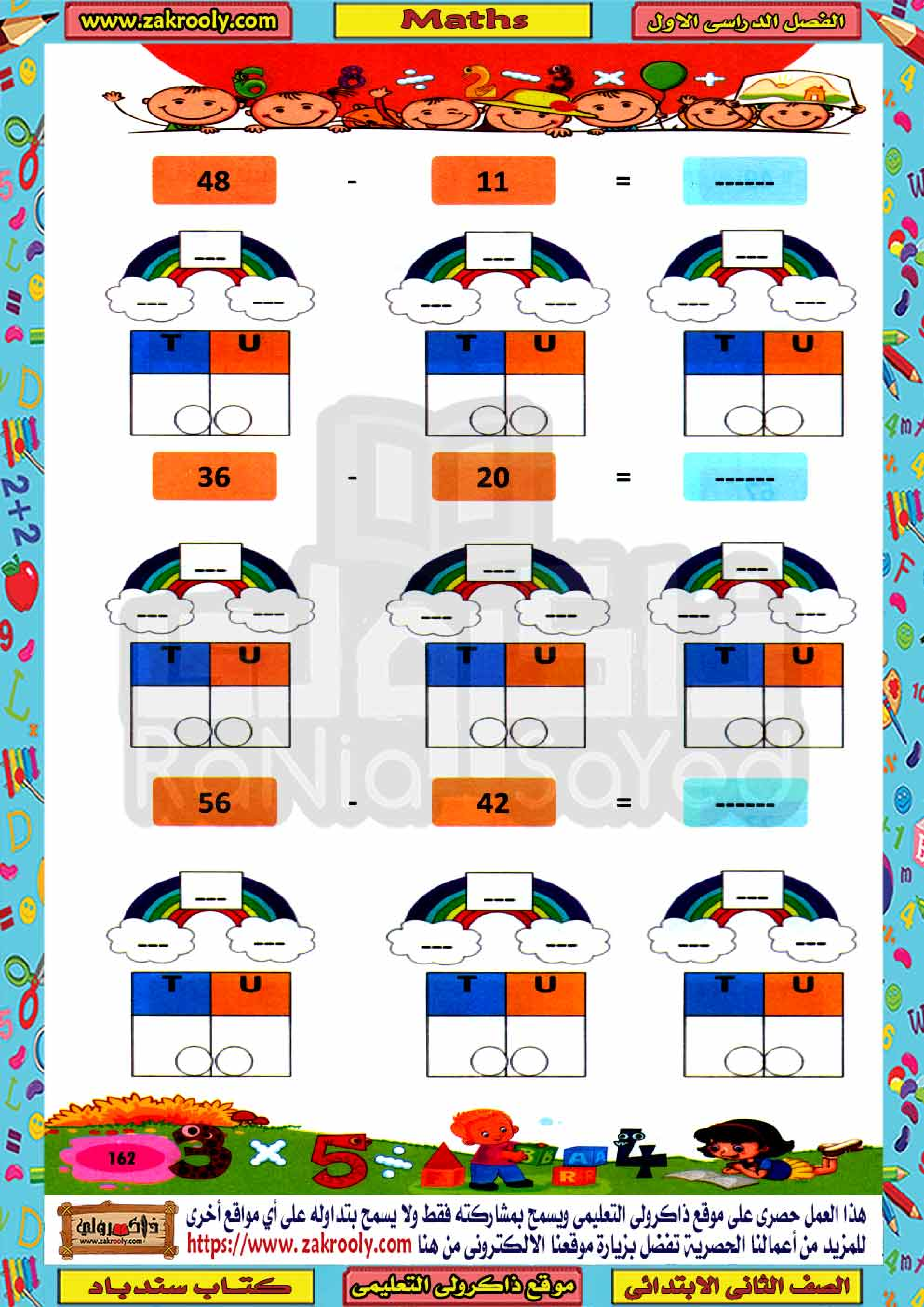
T	U

27 - 13 = ------

T	U

T	U

T	U



48	-	11	=	------

T	U

T	U

T	U

36	-	20	=	------

T	U

T	U

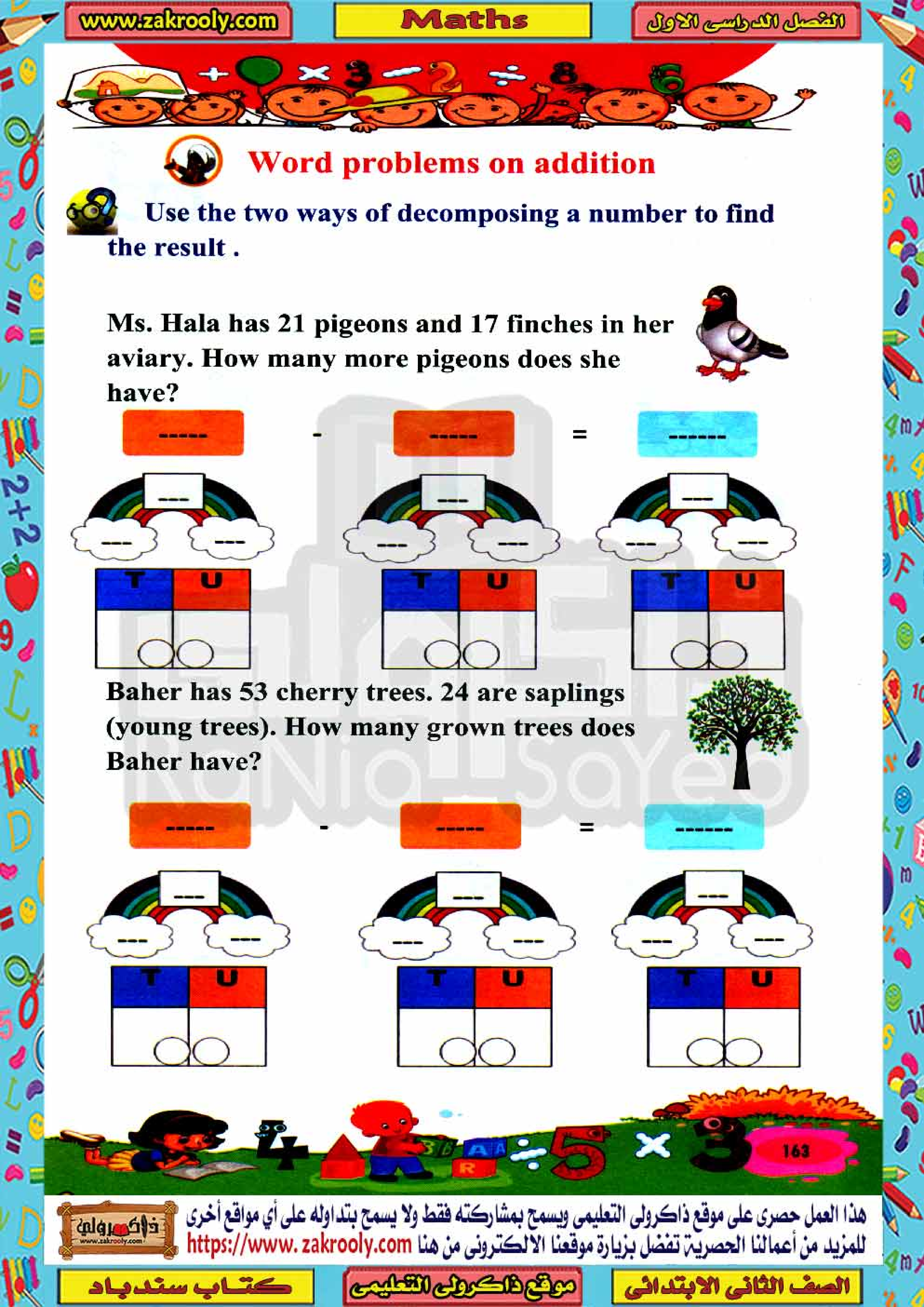
T	U

56	-	42	=	------

T	U

T	U

T	U



Word problems on addition

Use the two ways of decomposing a number to find the result .

Ms. Hala has 21 pigeons and 17 finches in her aviary. How many more pigeons does she have?

----- - ----- = ------

T	U

T	U

T	U

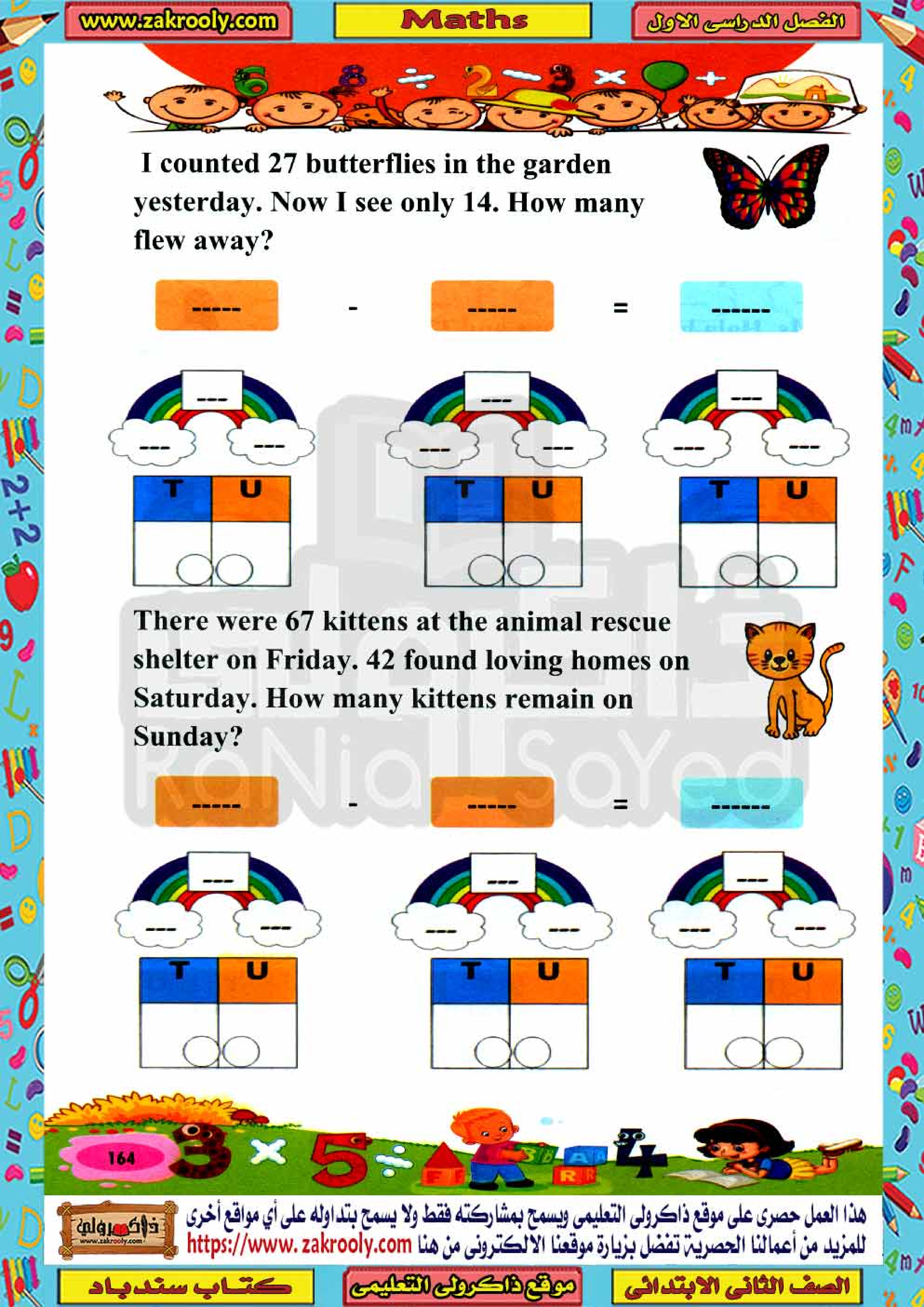
Baher has 53 cherry trees. 24 are saplings (young trees). How many grown trees does Baher have?

----- - ----- = ------

T	U

T	U

T	U



I counted 27 butterflies in the garden yesterday. Now I see only 14. How many flew away?

----- - ----- = ------

T	U

T	U

T	U

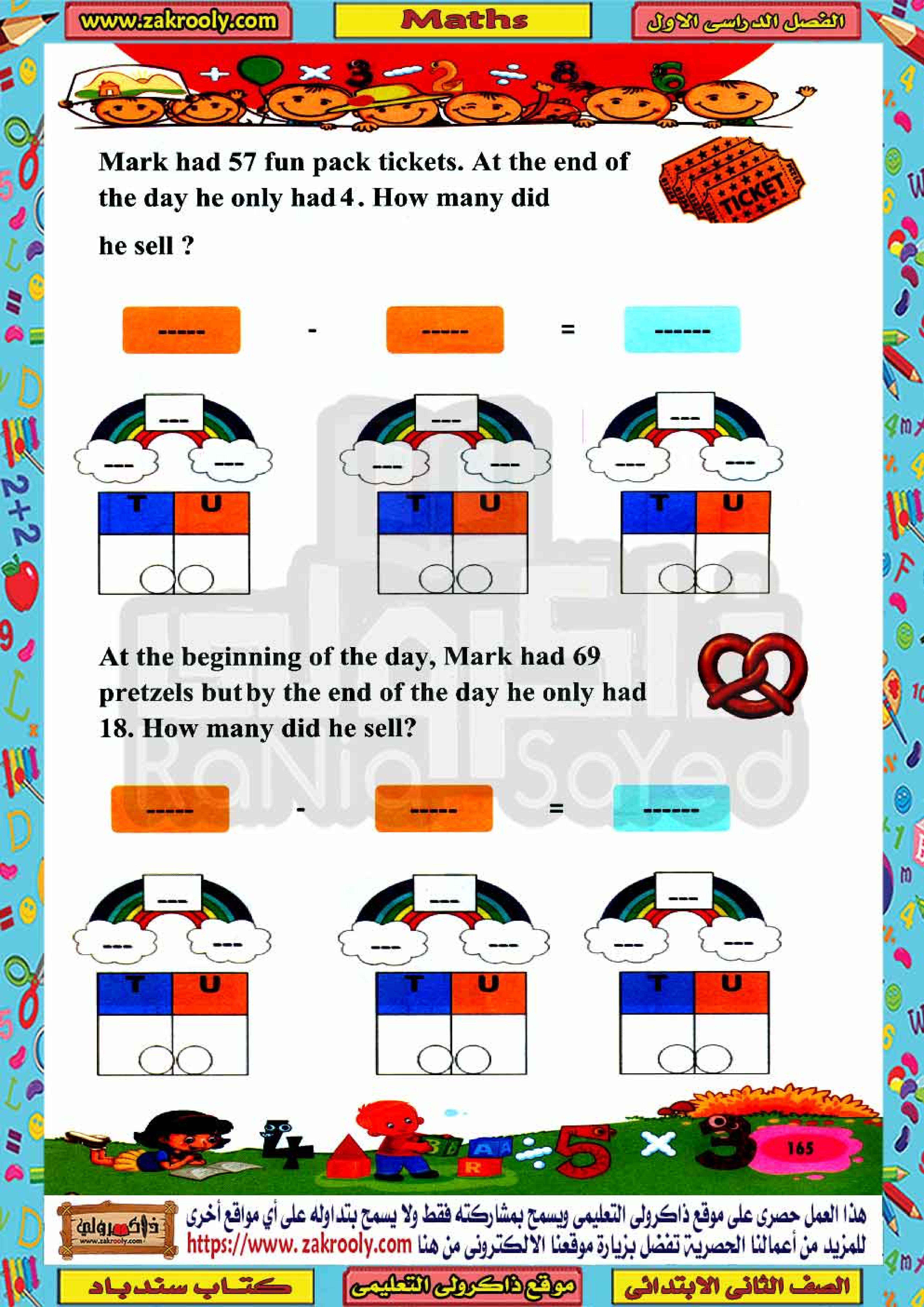
There were 67 kittens at the animal rescue shelter on Friday. 42 found loving homes on Saturday. How many kittens remain on Sunday?

----- - ----- = ------

T	U

T	U

T	U



Mark had 57 fun pack tickets. At the end of the day he only had 4. How many did he sell ?

----- - ----- = ------

T	U

T	U

T	U

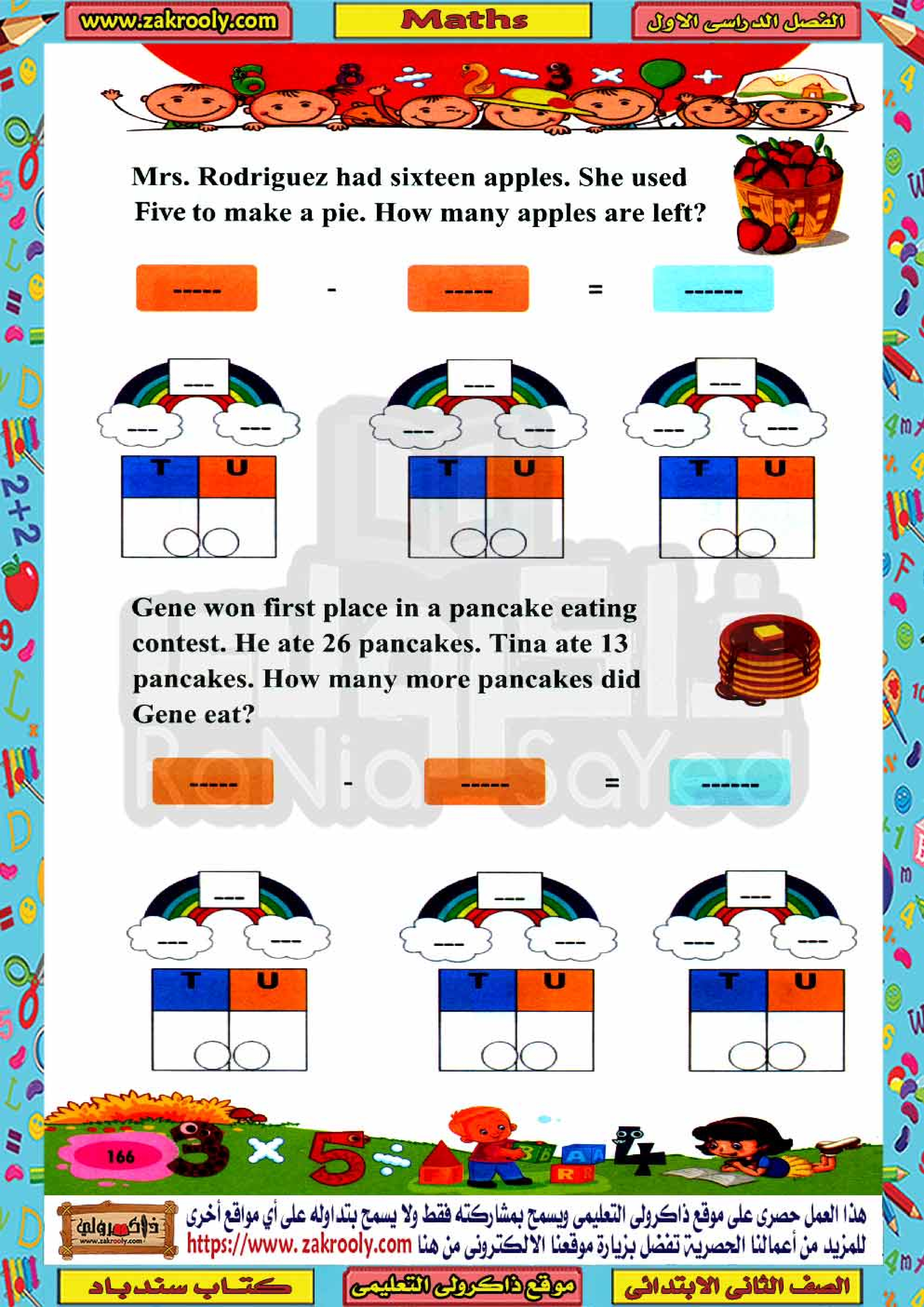
At the beginning of the day, Mark had 69 pretzels but by the end of the day he only had 18. How many did he sell?

----- - ----- = ------

T	U

T	U

T	U



Mrs. Rodriguez had sixteen apples. She used Five to make a pie. How many apples are left?

----- - ----- = ------

T	U

T	U

T	U

Gene won first place in a pancake eating contest. He ate 26 pancakes. Tina ate 13 pancakes. How many more pancakes did Gene eat?

----- - ----- = ------

T	U

T	U

T	U





Rewrite the equation so that the bigger number is stacked on top. Then find the difference

Example

$88 - 83 = __$

$$\begin{array}{r} 88 \\ -\ 83 \\ \hline 5 \end{array}$$

$75 - 22 = __$

$62 - 52 = __$

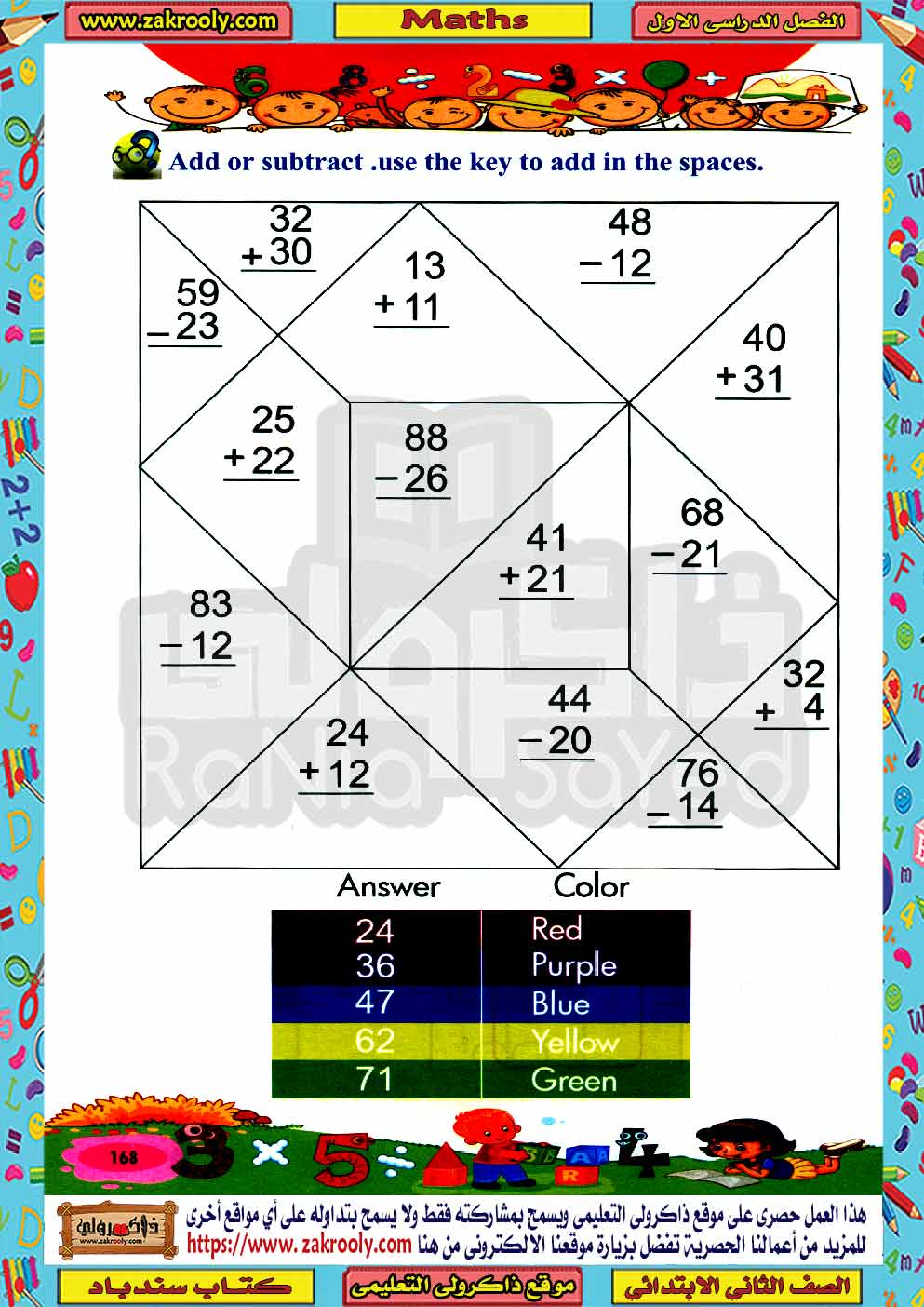
$86 - 75 = __$

$85 - 64 = __$

$46 - 20 = __$

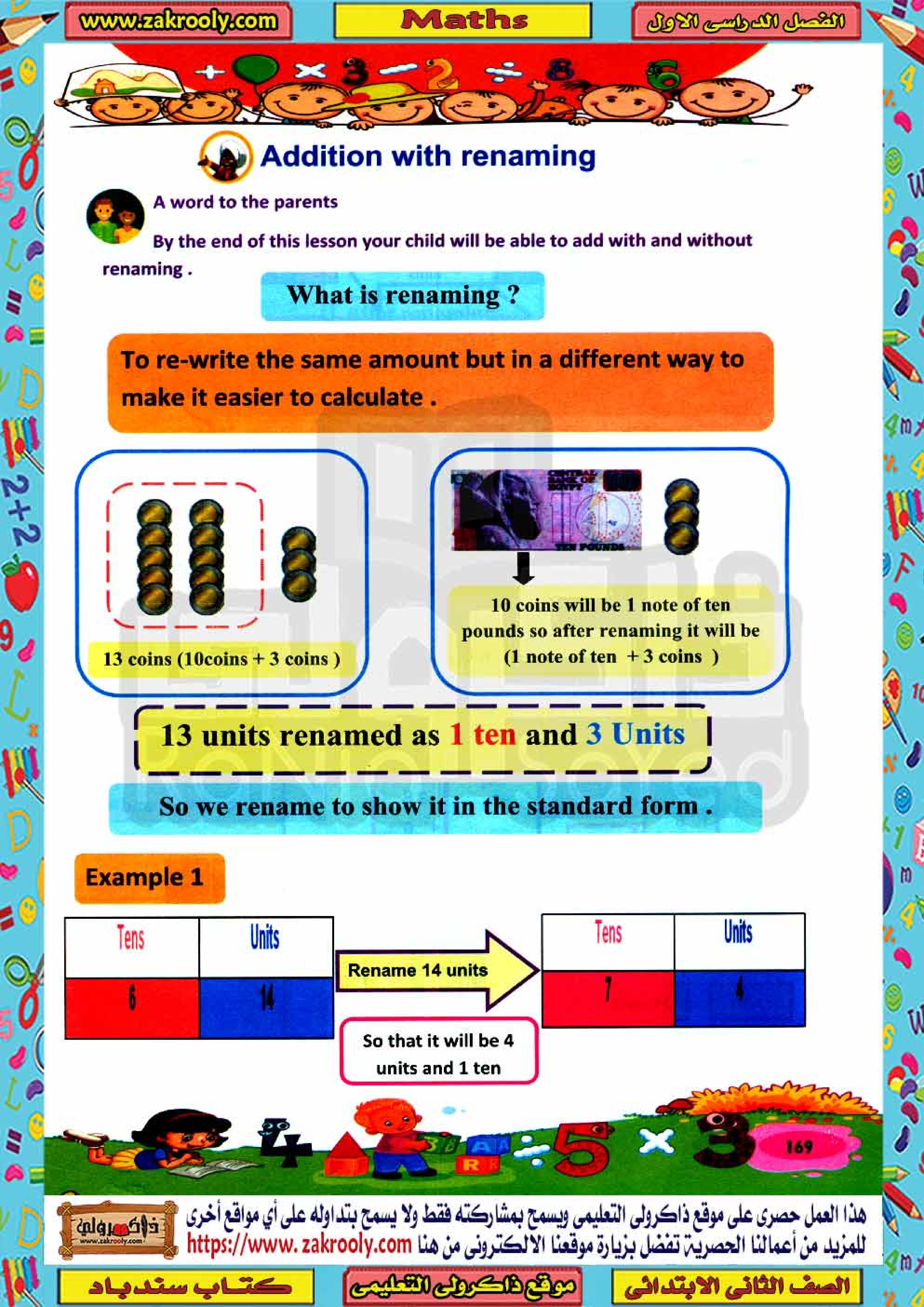
$37 - 35 = __$





Add or subtract .use the key to add in the spaces.

Answer	Color
24	Red
36	Purple
47	Blue
62	Yellow
71	Green



Addition with renaming

A word to the parents

By the end of this lesson your child will be able to add with and without renaming .

What is renaming ?

To re-write the same amount but in a different way to make it easier to calculate .

13 coins (10coins + 3 coins)

10 coins will be 1 note of ten pounds so after renaming it will be (1 note of ten + 3 coins)

13 units renamed as 1 ten and 3 Units

So we rename to show it in the standard form .

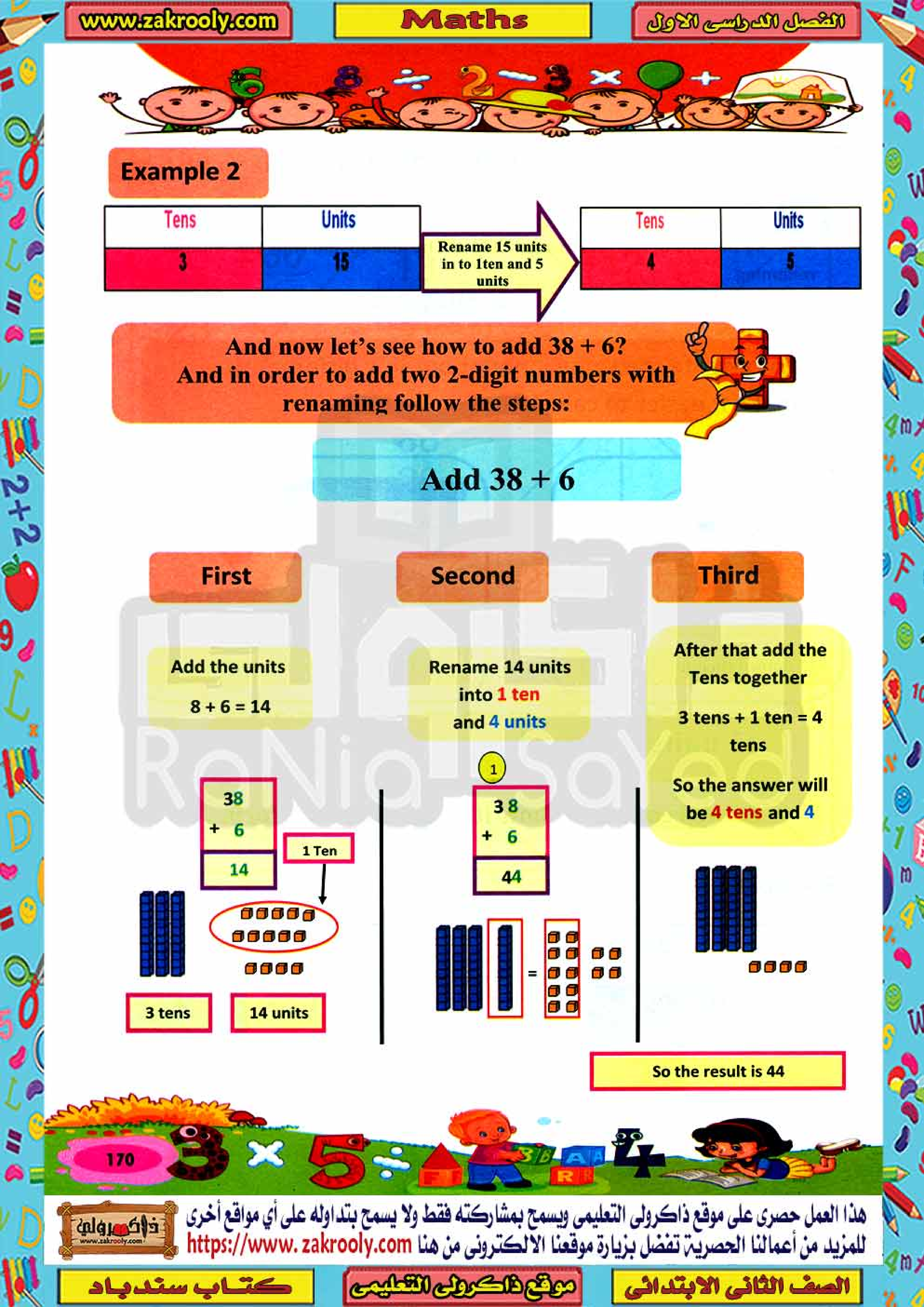
Example 1

Tens	Units
6	14

Rename 14 units →

Tens	Units
7	4

So that it will be 4 units and 1 ten



Example 2

Tens	Units
3	15

Rename 15 units in to 1ten and 5 units

Tens	Units
4	5

And now let's see how to add 38 + 6?
And in order to add two 2-digit numbers with renaming follow the steps:

Add 38 + 6

First

Add the units

8 + 6 = 14

Second

Rename 14 units into 1 ten and 4 units

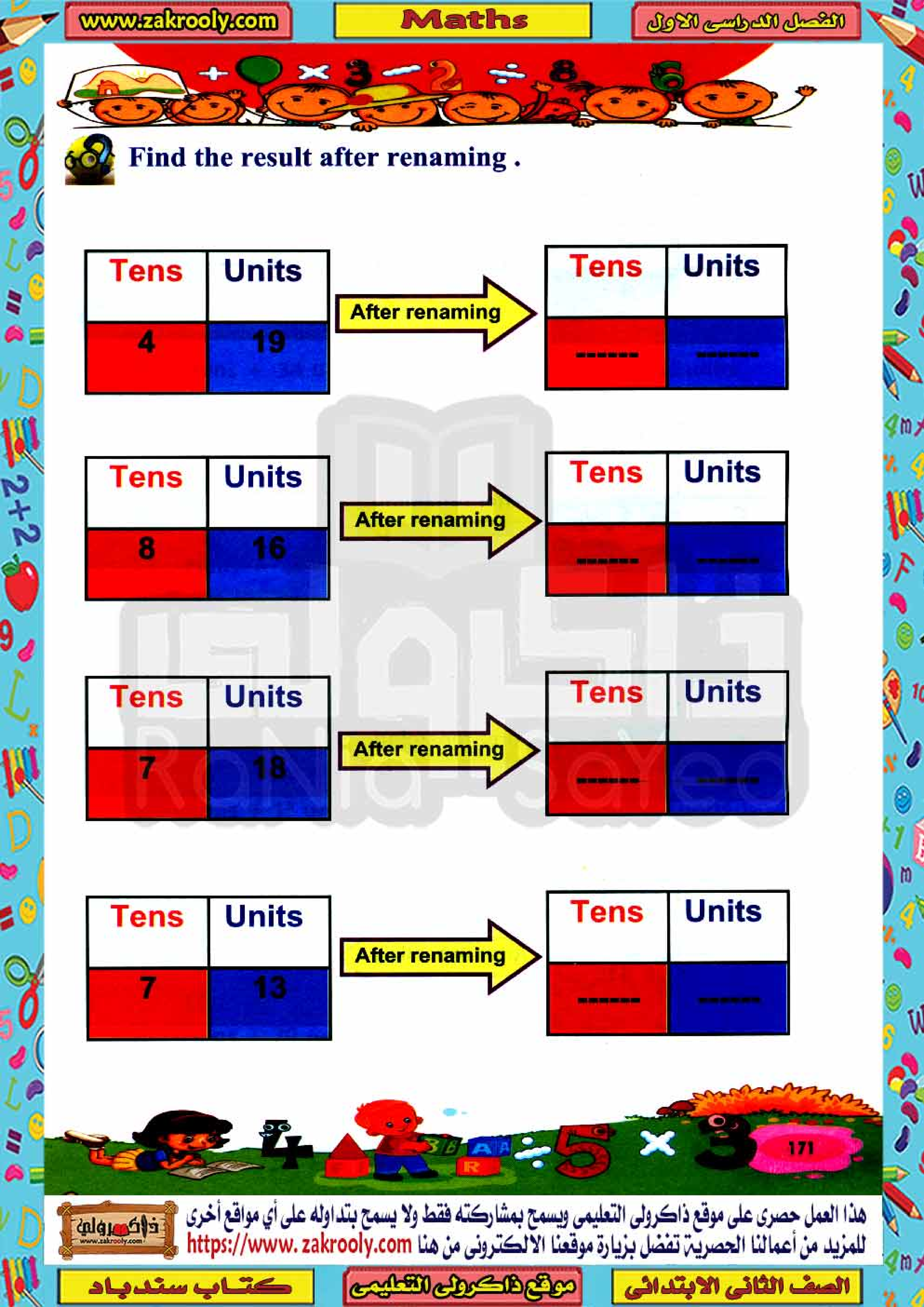
Third

After that add the Tens together

3 tens + 1 ten = 4 tens

So the answer will be 4 tens and 4

So the result is 44



Find the result after renaming .

Tens	Units
4	19

After renaming →

Tens	Units
------	------

Tens	Units
8	16

After renaming →

Tens	Units
------	------

Tens	Units
7	18

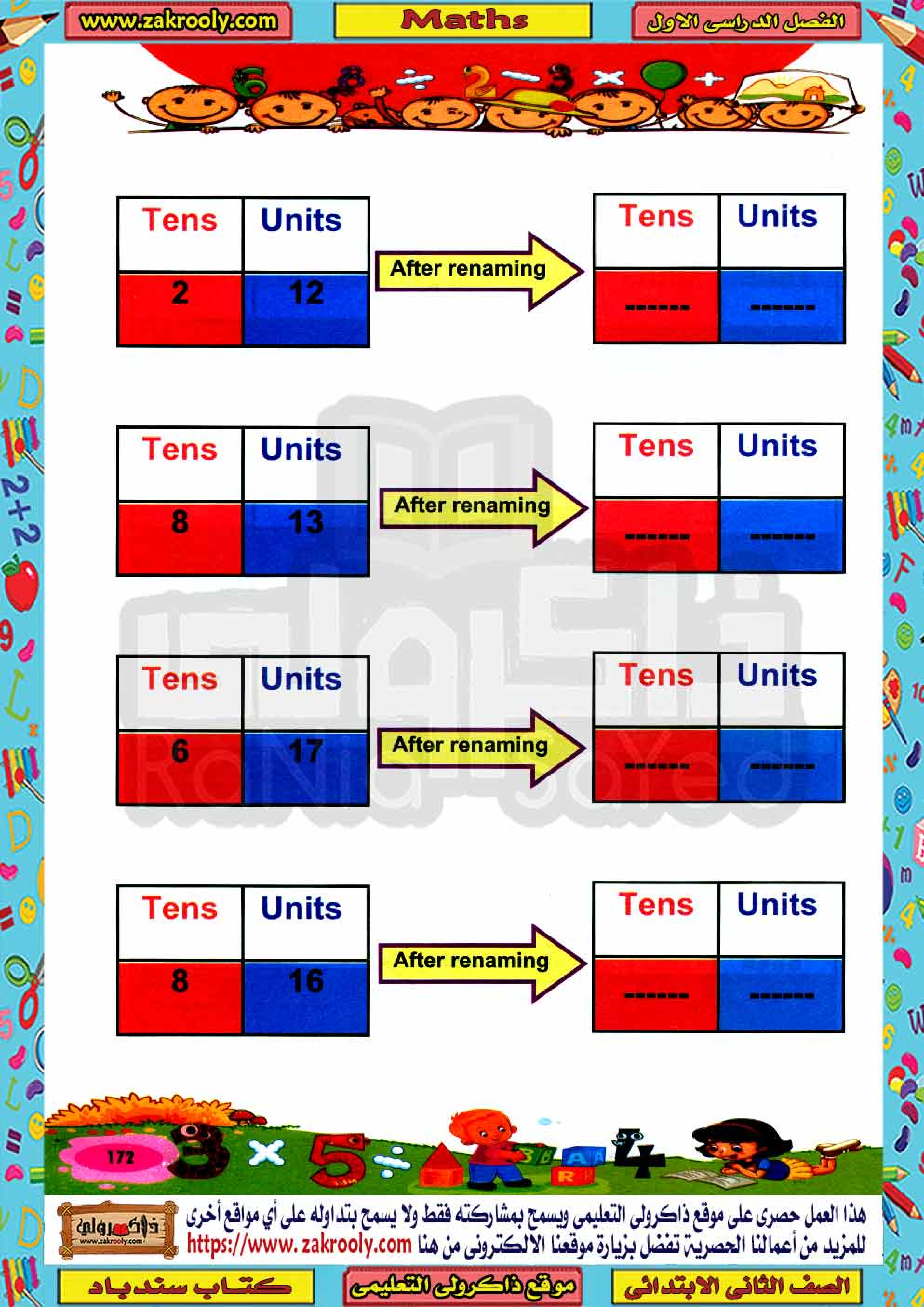
After renaming →

Tens	Units
------	------

Tens	Units
7	13

After renaming →

Tens	Units
------	------



Tens	Units
2	12

After renaming

Tens	Units
------	------

Tens	Units
8	13

After renaming

Tens	Units
------	------

Tens	Units
6	17

After renaming

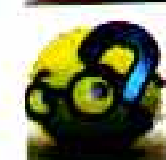
Tens	Units
------	------

Tens	Units
8	16

After renaming

Tens	Units
------	------





Which is Equal?: Practice Regrouping

These numbers are written according to their place values. These numbers can be regrouped and written again. Which of the two options is regrouped correctly?

34 = 3 tens + 4 units

A: 1 tens + 34 units

B: 2 tens + 14 units

42 = 4 tens + 2 units

A: 3 tens + 22 units

B: 2 tens + 22 units

53 = 5 tens + 3 units

A: 4 tens + 23 units

B: 4 tens + 13 units

66 = 6 tens + 6 units

A: 7 tens + 16 units

B: 4 tens + 26 units

75 = 7 tens + 5 units

A: 5 tens + 15 units

B: 6 tens + 15 units

81 = 8 tens + 1 units

A: 4 tens + 31 units

B: 5 tens + 31 units

79 = 7 tens + 9 units

A: 4 tens + 39 units

B: 6 tens + 29 units

97 = 9 tens + 7 units

A: 8 tens + 27 units

B: 6 tens + 37 units

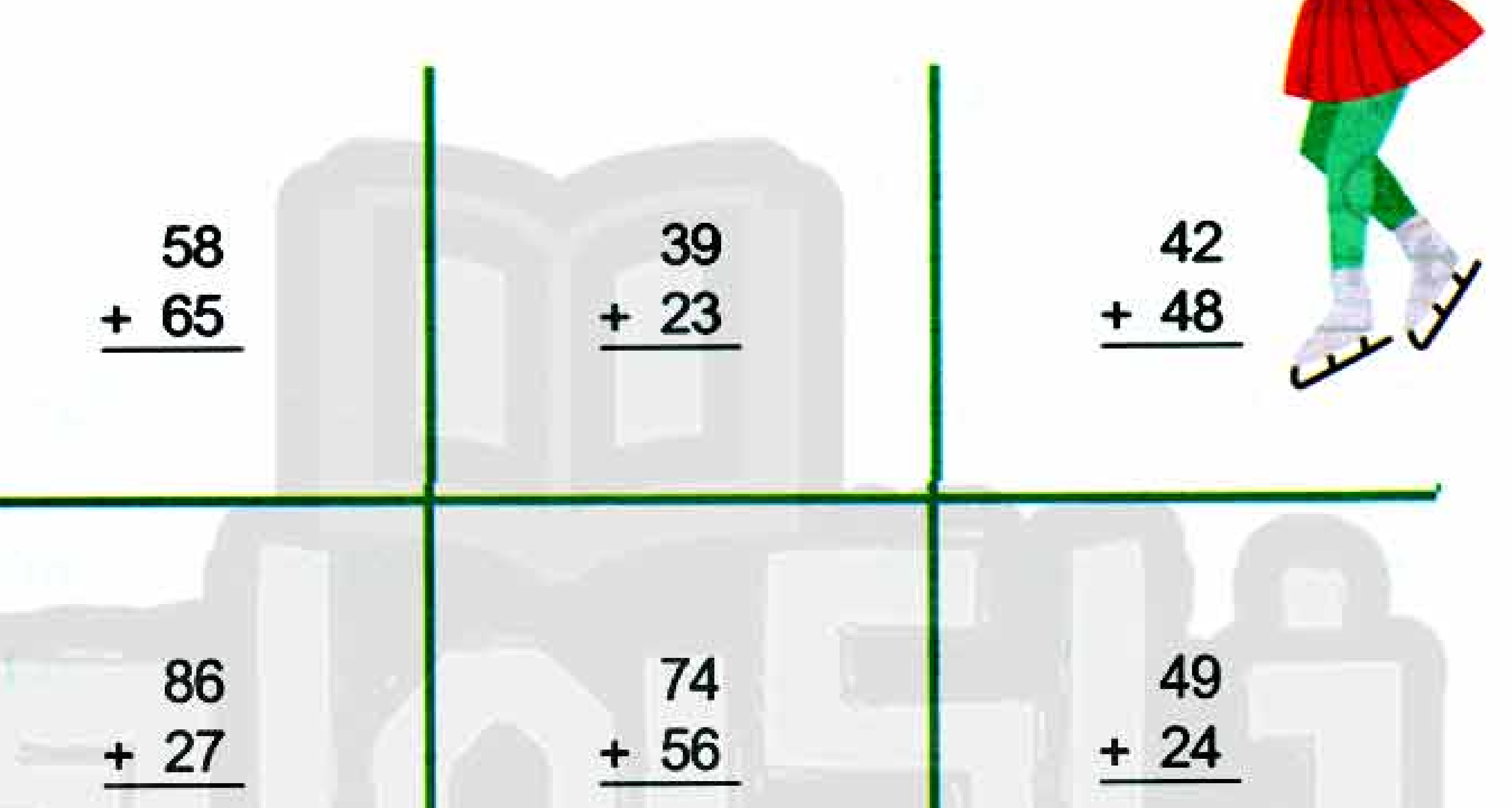






Find the result .

Ice Skating Addition



58 + 65	39 + 23	42 + 48
86 + 27	74 + 56	49 + 24
65 + 26	18 + 33	25 + 47
59 + 12	73 + 27	88 + 14







Find the result .



Use the space in each box to stack your numbers. Then, add them up.

70 + 43 = _____	80 + 63 = _____
32 + 40 = _____	54 + 39 = _____
73 + 94 = _____	73 + 62 = _____
63 + 29 = _____	84 + 12 = _____
96 + 44 = _____	73 + 96 = _____










Find the result .

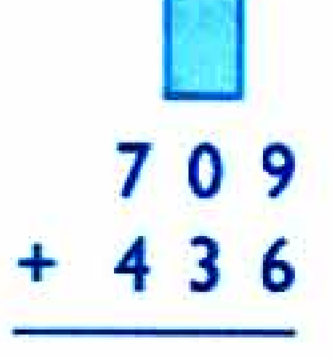
Use the space in each box to stack your numbers. Then, add them up.

51 + 39 = _____	13 + 19 = _____
64 + 38 = _____	45 + 18 = _____
53 + 98 = _____	63 + 27 = _____
24 + 29 = _____	74 + 18 = _____
10 + 91 = _____	95 + 61 = _____





 **Find the sum of each addition problem below .**

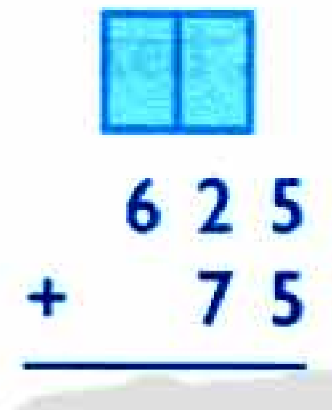


$$\begin{array}{r} 709 \\ +\ 436 \\ \hline \end{array}$$

$$\begin{array}{r} 668 \\ +\ 542 \\ \hline \end{array}$$



$$\begin{array}{r} 173 \\ +\ 285 \\ \hline \end{array}$$



$$\begin{array}{r} 625 \\ +\ 75 \\ \hline \end{array}$$



$$\begin{array}{r} 246 \\ +\ 481 \\ \hline \end{array}$$



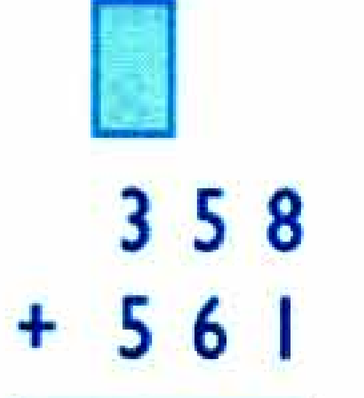
$$\begin{array}{r} 520 \\ +\ 189 \\ \hline \end{array}$$



$$\begin{array}{r} 779 \\ +\ 614 \\ \hline \end{array}$$

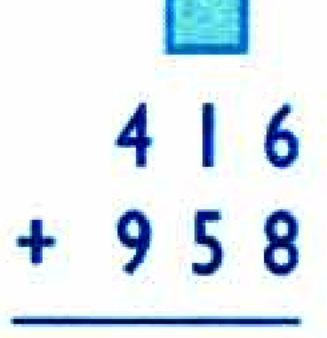
$$\begin{array}{r} 294 \\ +\ 375 \\ \hline \end{array}$$

$$\begin{array}{r} 492 \\ +\ 459 \\ \hline \end{array}$$



$$\begin{array}{r} 358 \\ +\ 561 \\ \hline \end{array}$$

$$\begin{array}{r} 593 \\ +\ 308 \\ \hline \end{array}$$

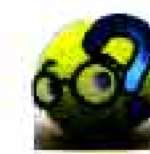


$$\begin{array}{r} 416 \\ +\ 958 \\ \hline \end{array}$$









Find the sum of each addition problem below .

1 29 + 12 41	65 + 17	37 + 28
456 + 174	387 + 264	546 + 198
308 + 199	765 + 77	824 + 119

Find the result of the addition problems below

26 + 37 = --------------

67 + 8 = ----------------

36 + 49 = ---------------

46 + 17 = ------------

489 + 121 = -------------

325 + 89 = --------------









word problems

Dan gave his friend Chris 14 star stickers. He also gave his friend Jenna 20 star stickers. How many star stickers did Dan give in all to his friends ?

Dan gave ------------- + ------------ = ------------

Pipa went strawberry picking with her sister. Pipa picked 256 strawberries. Her sister picked 138. How many strawberries did they pick in all?

They picked ------------ + ---------- = ----------

Leah has a teddy bear collection with 64 bears. Her aunt gave her 26 more bears to add to her collection. How many bears does Leah have now?

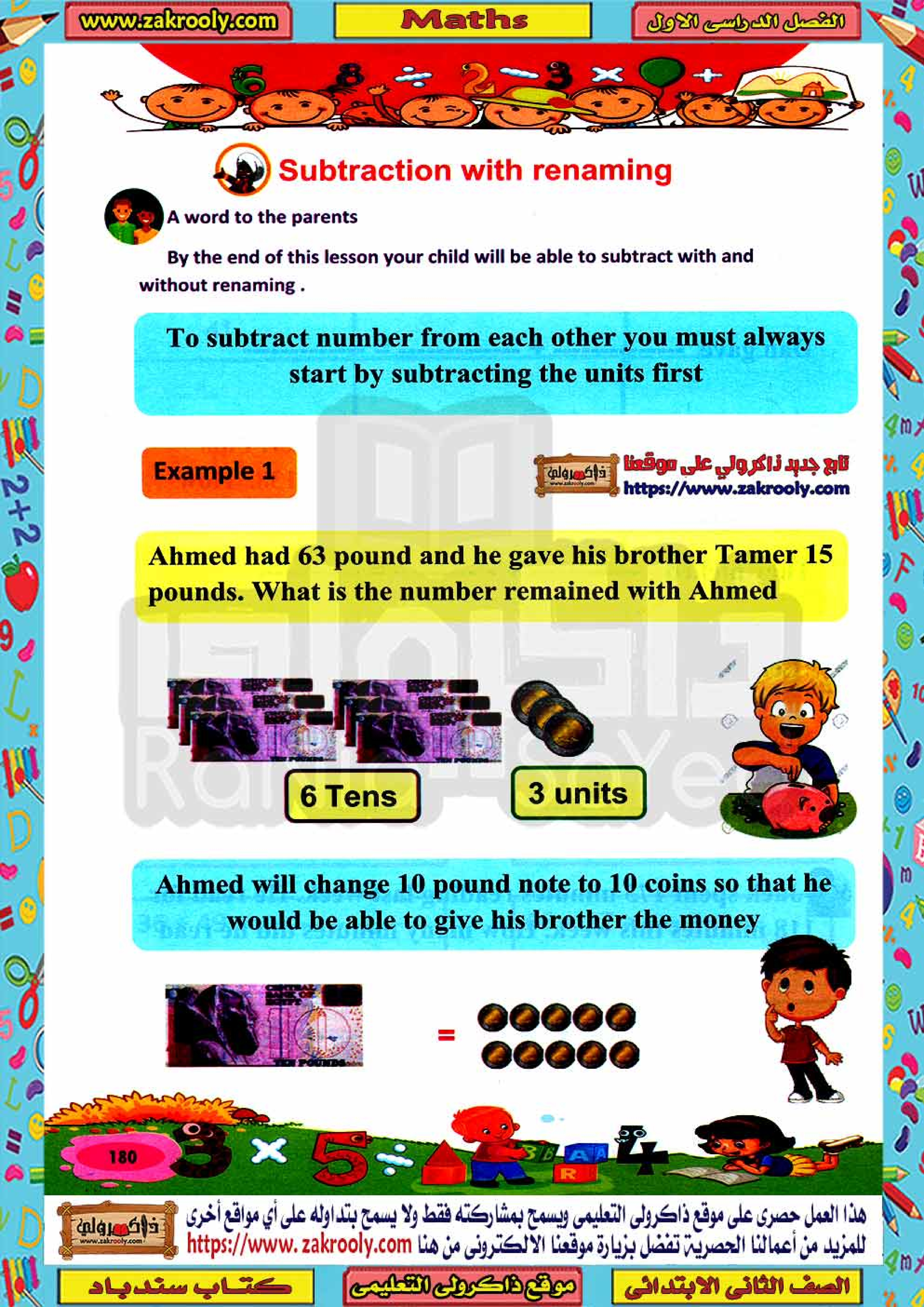
Leah have ------------- + ------------ = ------------

Jack spent 173 minutes reading last week. He read for 118 minutes this week. How many minutes did he read in all?

Minutes ----------- + ---------- = ----------







Subtraction with renaming

A word to the parents

By the end of this lesson your child will be able to subtract with and without renaming .

To subtract number from each other you must always start by subtracting the units first

Example 1

Ahmed had 63 pound and he gave his brother Tamer 15 pounds. What is the number remained with Ahmed

Ahmed will change 10 pound note to 10 coins so that he would be able to give his brother the money

it is the same amount of money but the way it looks has changed

At the beginning the money was

6 tens + 3 units

The way the number looks like has changed after renaming but the amount as it is

After renaming it became

5 tens +13 units

Then , if you take 15 pounds from 63 the remaining will be 48

So , Tamer will take 1 ten and 5 units .

And the remained money will be the amount that doesn't have X on it which is 48





Now lets see how can we subtract 46 – 18
In order to subtract with renaming
follow these steps .

Subtract 46 - 18

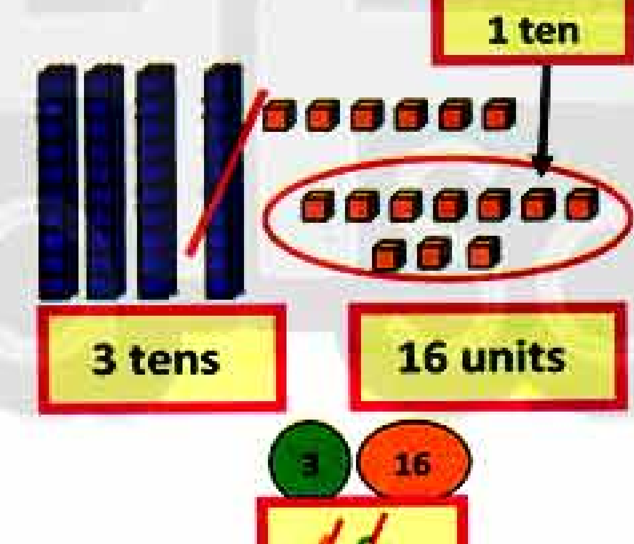
First

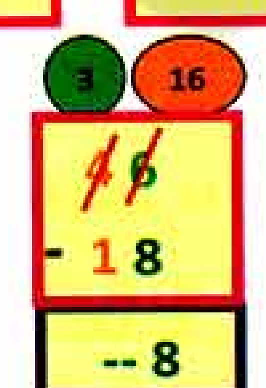
You can't subtract 8 from 6



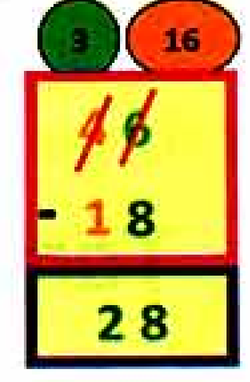
Second

Rename 1 ten to become 10 units . Then , instead of 4 tens and 6 units it will be 3 tens and 16 units





And now you can subtract 8 units from 16 units (16 -8 = 8)
Put the answer in the units side and don't forget to subtract from 4 tens 1 ten
so the tens side will be 3 tens .
then subtract the tens together and put the answer in the tens place



So the result is 28



Find the result .

8	13
~~9~~	~~3~~
- 7	9
1	4

3 2 - 1 9 -------	2 4 - 1 5 -------	6 3 - 2 7 -------
3 5 - 2 7 -------	9 0 - 9 -------	5 2 - 4 3 -------
6 3 - 3 3 -------	9 9 - 7 9 -------	4 8 - 7 -------
5 2 - 1 7 -------	4 4 - 1 5 -------	8 3 - 2 9 -------





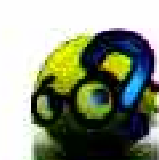
Find the difference in each of the following .

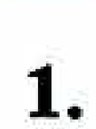


82 − 26	75 − 29	43 − 14
38 − 19	50 − 25	61 − 37
94 − 46	87 − 39	46 − 18
65 − 27	58 − 19	30 − 13









Find the difference in each of the following .



1.
$$\begin{array}{r} 80 \\ -\ 24 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 72 \\ -\ 15 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 60 \\ -\ 58 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 75 \\ -\ 46 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 98 \\ -\ 79 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 96 \\ -\ 77 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 98 \\ -\ 69 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 53 \\ -\ 49 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 92 \\ -\ 36 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 92 \\ -\ 87 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 97 \\ -\ 68 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 91 \\ -\ 16 \\ \hline \end{array}$$

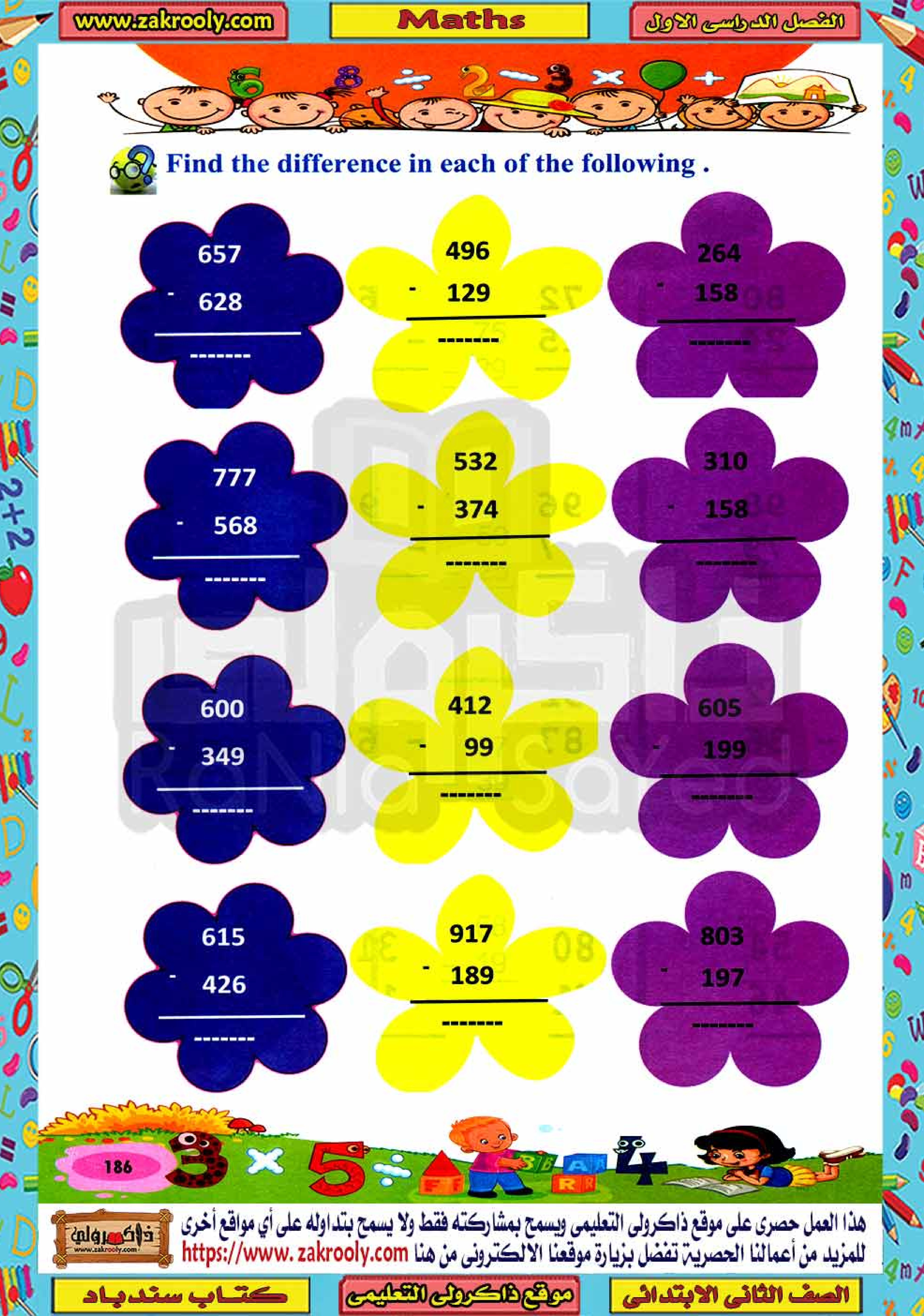
13.
$$\begin{array}{r} 54 \\ -\ 46 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 80 \\ -\ 61 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 31 \\ -\ 18 \\ \hline \end{array}$$



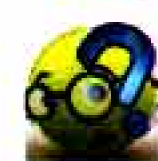




Find the difference in each of the following .

657 - 628 --------	496 - 129 --------	264 - 158 --------
777 - 568 --------	532 - 374 --------	310 - 158 --------
600 - 349 --------	412 - 99 --------	605 - 199 --------
615 - 426 --------	917 - 189 --------	803 - 197 --------





Find the difference in each of the following .

800 – 367 = ------------

521 – 418 = ------------

812 –792 = ------------

610 - 573 = ------------

800 – 367 = ------------

521 – 418 = ------------

777 – 669 = ------------

756- 549 = ------------

899 – 657 = ------------

911 – 864 = ------------

600 – 435 = ------------

207 - 191 = ------------

668 – 299 = ------------

217 – 94 = ------------

950 –285 = ------------

401 - 73 = ------------



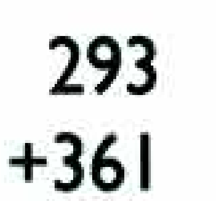


Find the result in each of the following .

Three-Digit Addition and Subtraction

with Franco and Julia





293 +361	184 +212	454 +361	193 +195	375 +332	665 +273
963 - 217	798 - 345	645 -218	721 - 414	647 - 373	781 - 669
489 +340	242 +281	688 +150	421 +333	553 +396	150 +438
804 - 113	590 - 360	476 - 263	421 - 111	384 -170	926 - 717
183 +854	277 +216	687 +159	953 +174	316 +805	767 +393









word problems

To raise money for a new science lab, Safa Elementary is selling T-shirts and hats with the school's name on it. They sell 73 T-shirts and 29 hats. How many more T-shirts did they sell than hats?

T-shirts ------------- - ------------ = ------------

The kitchen staff has 66 containers of strawberry milk and 41 containers of chocolate milk chilling in the fridge. If they expect 100 students to order strawberry milk, how many more cartons of strawberry milk do they need?

They need ----------- - ---------- = ----------

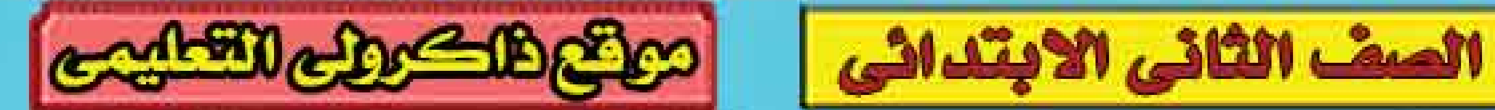
SunRise school play is this weekend, and they've sold sold 229 tickets so far. Last year, they sold 177 tickets. How many more did they sell this year?

This year ------------- - ------------ = ------------

There are a total of 904 students at SunRise Elementary. 426 of them live in Nasrcity. The other students live in El- Rehab. How many students live in El- Rehab?

Students in El- Rehab ----------- - ---------- = ----------







Compare and put < ,> , =

354 + 285 ◯ 245 – 228

264 + 543 ◯ 543 – 264

648 + 146 ◯ 784 – 312

Complete the sequence of the numbers .

a) 331 , 431 , 531 , ----- ,----- , -----

b) 880 , 800 , 720 , ----- , ----- , -----

c) 130 , 160 , 190 , ------ , -----

d) 800 , 775 , ----- , 725 , -----



Unit Five

Lessons from 41-50

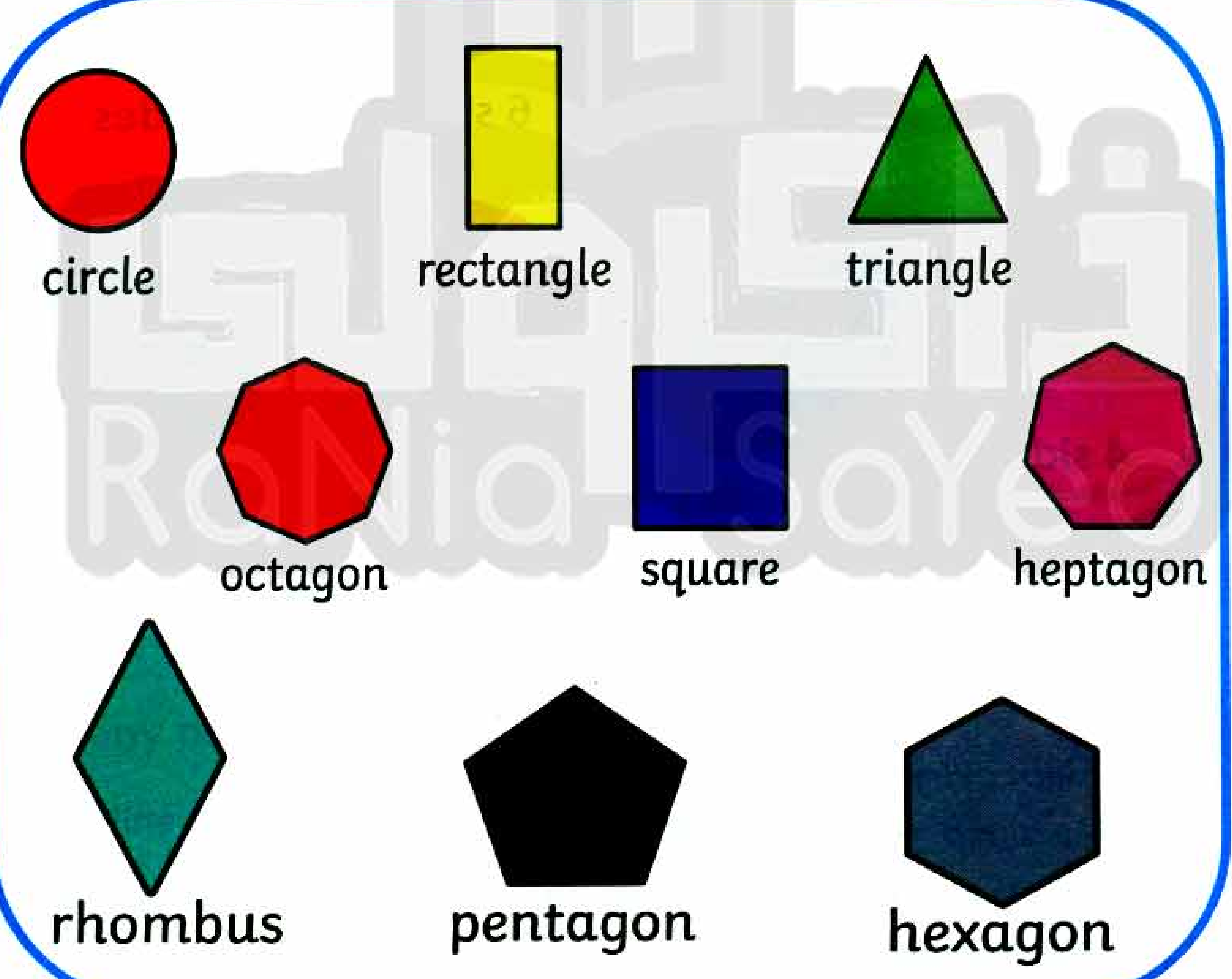
Polygons

A word to the parents

By the end of this lesson your child should be able to

- Recognize the ploygons and Know how to draw it
- Determine the line segments which formed a polygon and the number of vertices .

A polygon is a closed figure formed from 3 line segments or more .





3 sides

3 sides

4 sides

4 sides

5 sides

6 sides

7 sides

4 sides

8 sides

9 sides

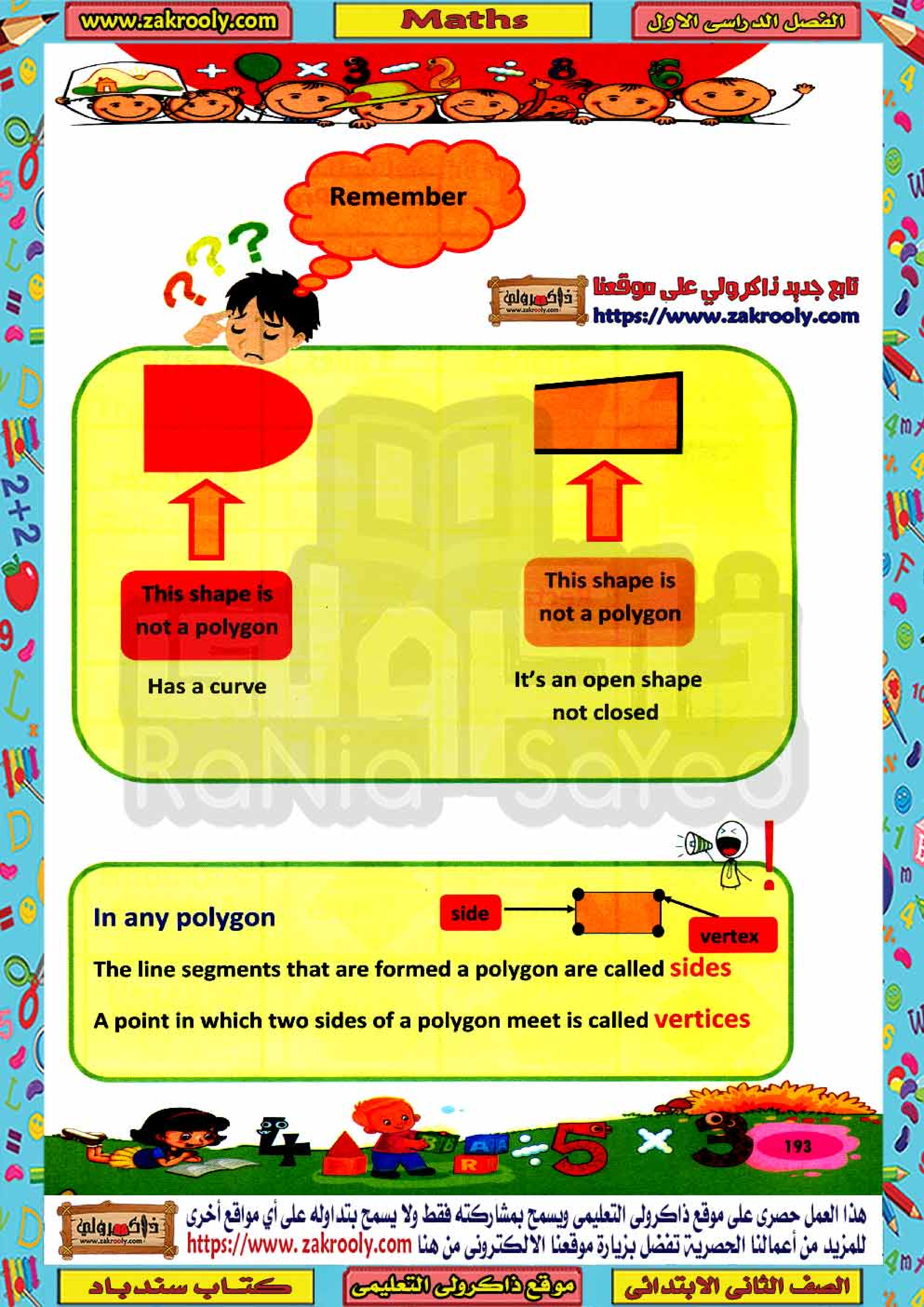
10 sides

A polygon . . .

- Has straight sides or edges
- Two edges meet at each vertex
- Has no gaps or spaces
- Has no left over lines or intersecting lines







In any polygon

The line segments that are formed a polygon are called **sides**

A point in which two sides of a polygon meet is called **vertices**



polygons

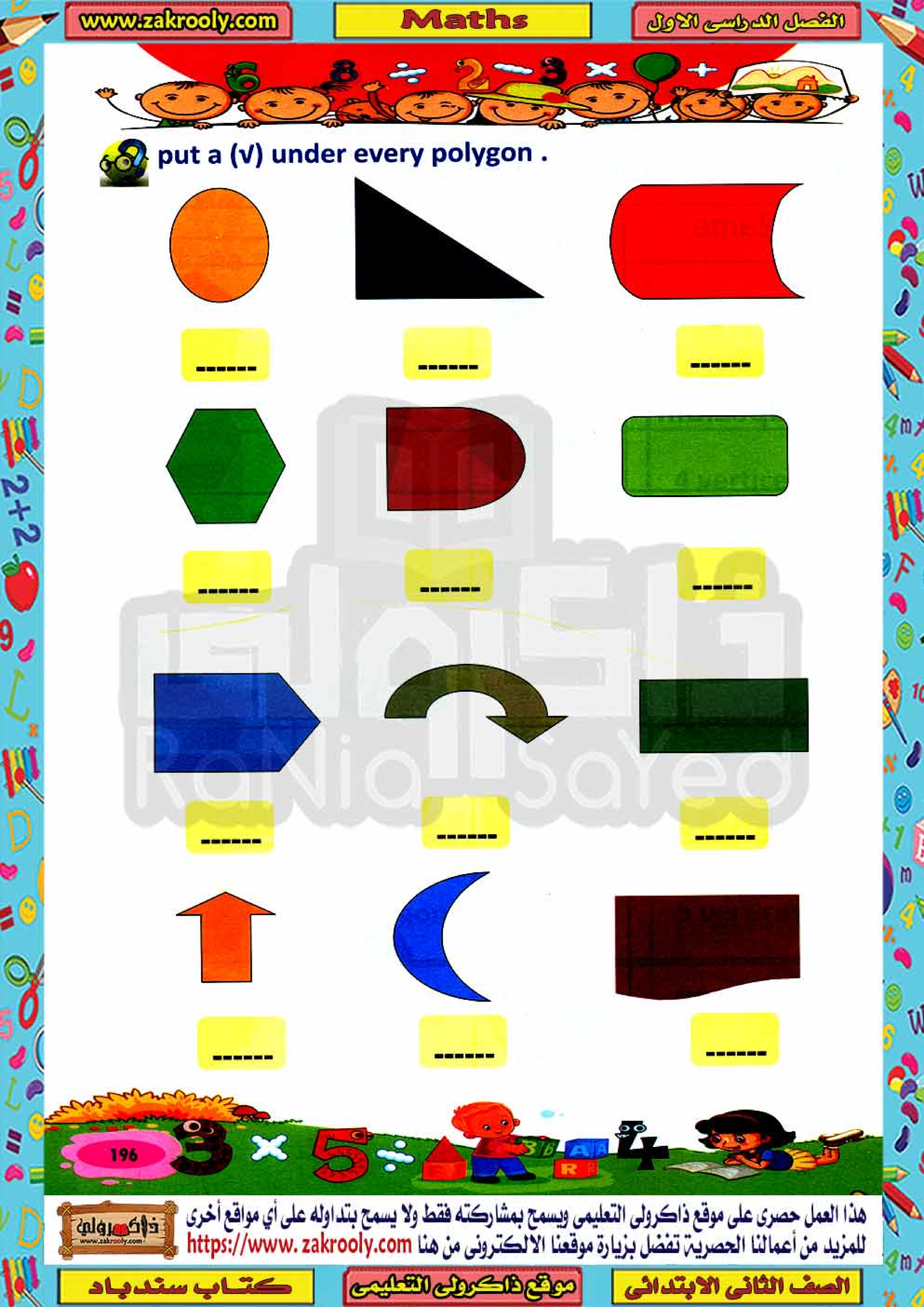
Shape	Name	Properties: Sides	Properties: Vertices
	Triangle	3 sides	3 vertices
	Square	4 sides (all sides are equal)	4 vertices
	Rectangle	4 sides (2 short equal sides and 2 long equal sides)	4 vertices
	Trapezium	4 sides (only 2 parallel lines)	4 vertices
	Rhombus	4 sides (4 equal sides)	4 vertices
	Pentagon	5 sides	5 vertices
	Hexagon	6 sides	6 vertices





Circle the shape that has the same name

Name	Shape
Pentagon	
Trapezium	
Rectangle	
Triangle	
Square	
Rhombus	
Hexagon	



put a (√) under every polygon .

------ ------ ------

------ ------ ------

------ ------ ------

------ ------ ------



Write the name of each polygon .

1. ______________

2. ______________

3. ______________

4. ______________

5. ______________

6. ______________

7. ______________

8. ______________



Look carefully at the properties of these 2-D shapes , Write your results in the table .

2-D shape	No. of sides	No. of vertices	No. of curved lines	Name of the shape







Complete as in the example .

No. of sides = 4
No. of vertices =4

No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

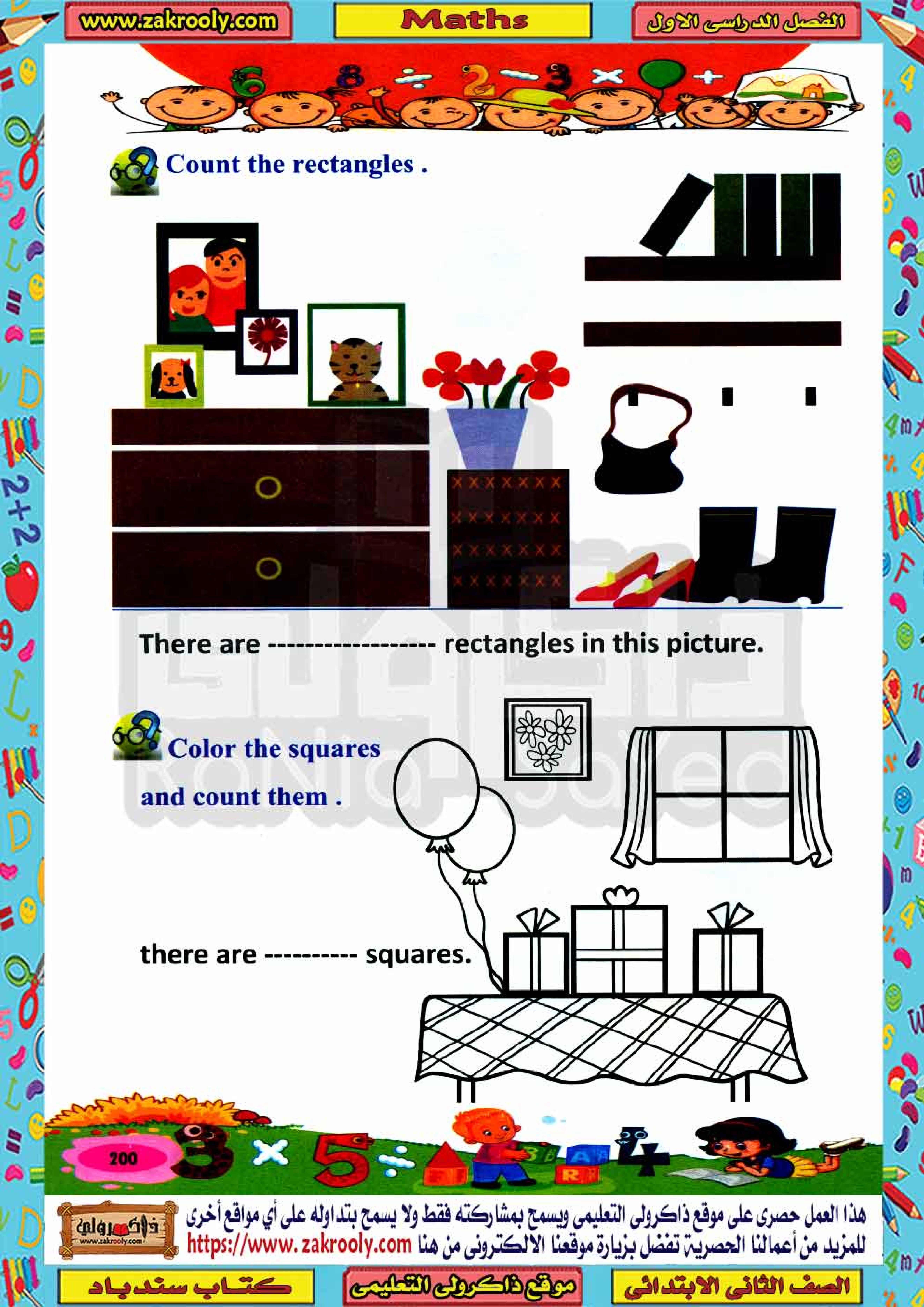
No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

No. of sides = -----
No. of vertices = ---

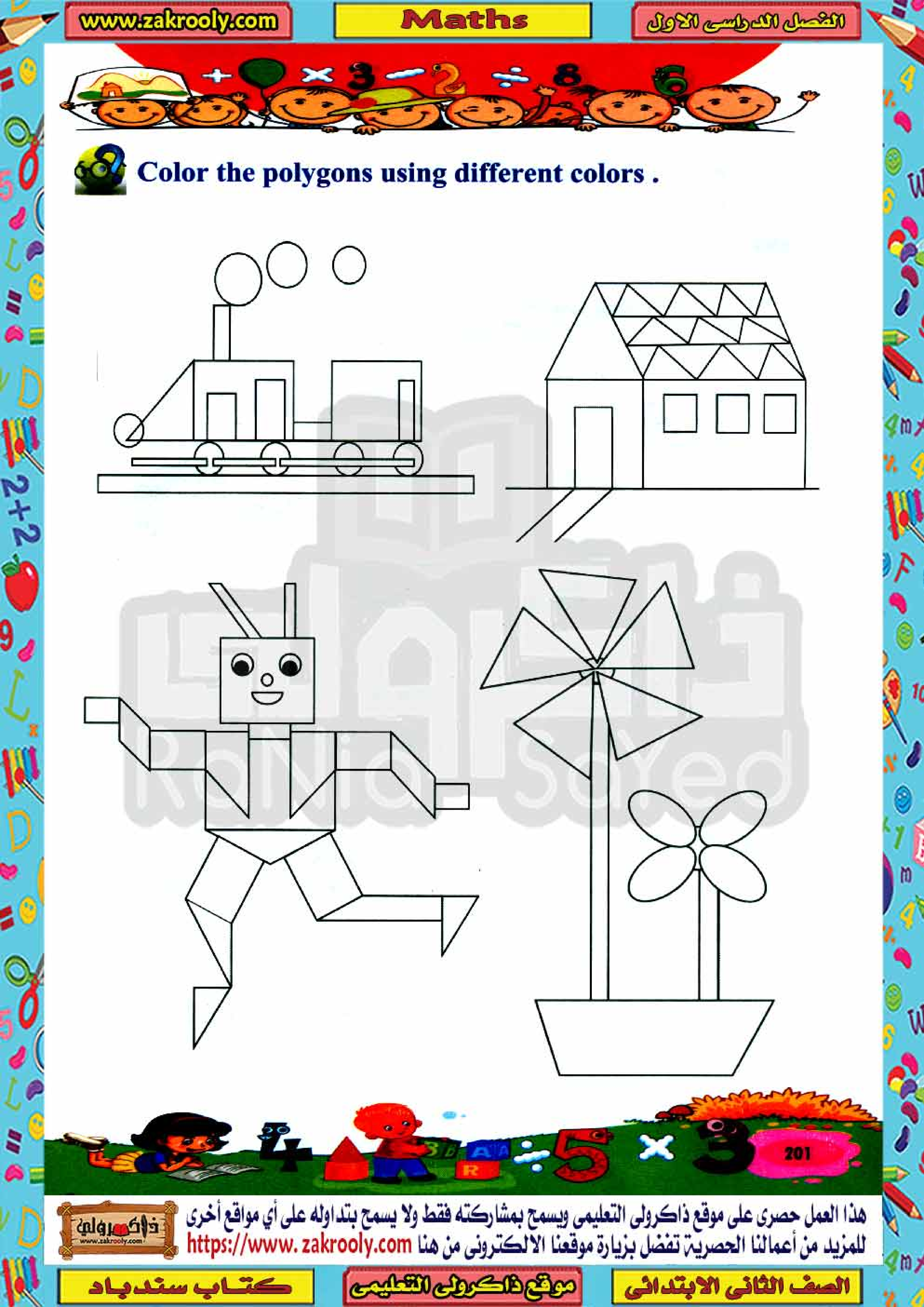


Count the rectangles .

There are ----------------- rectangles in this picture.

Color the squares
and count them .

there are ---------- squares.



Color the polygons using different colors .



How many triangles are there .Count them and write the number below .



There are ------------------ triangles in this picture.



How many Pentagons

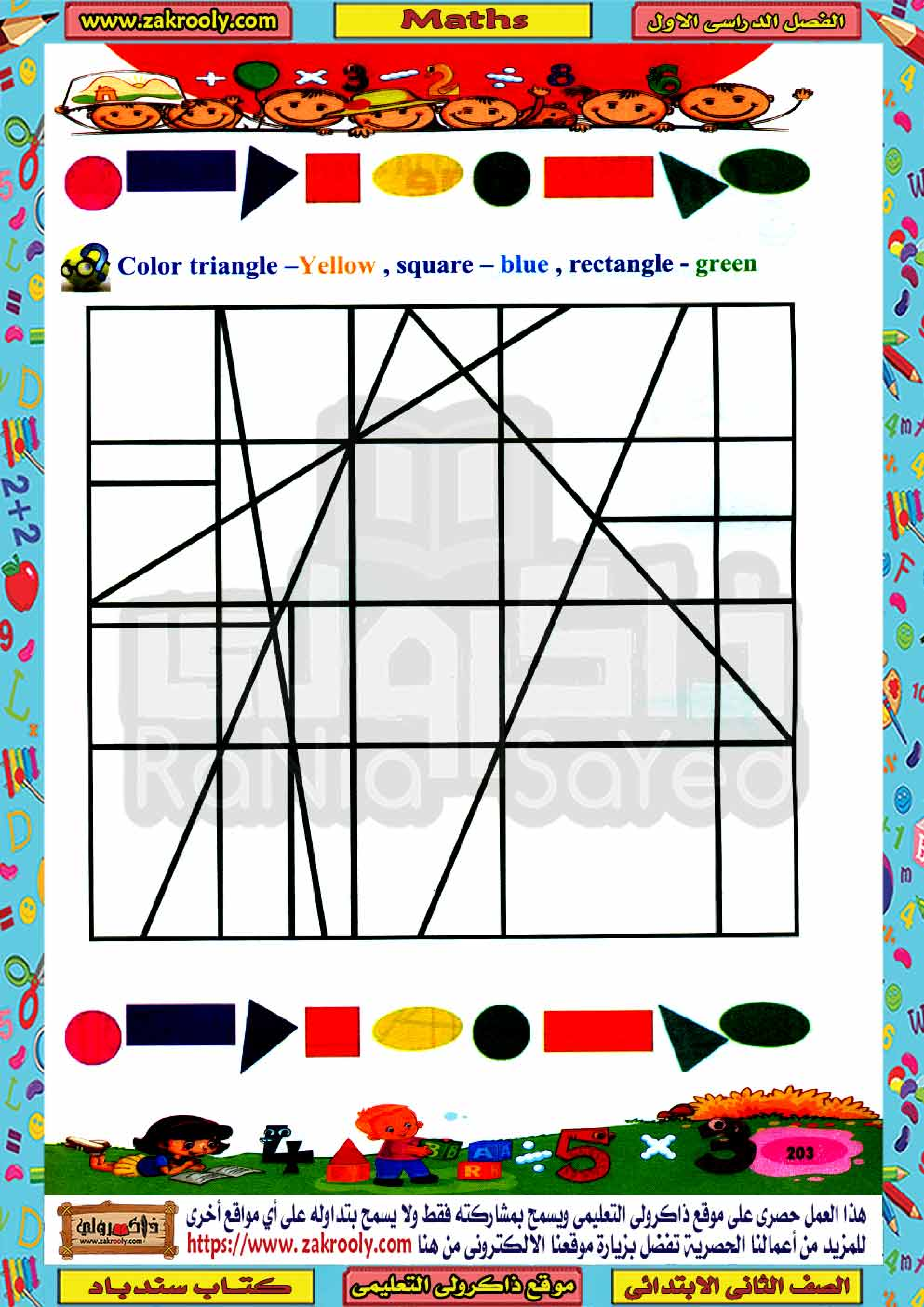
can you find ?

There are ------------- pentagons





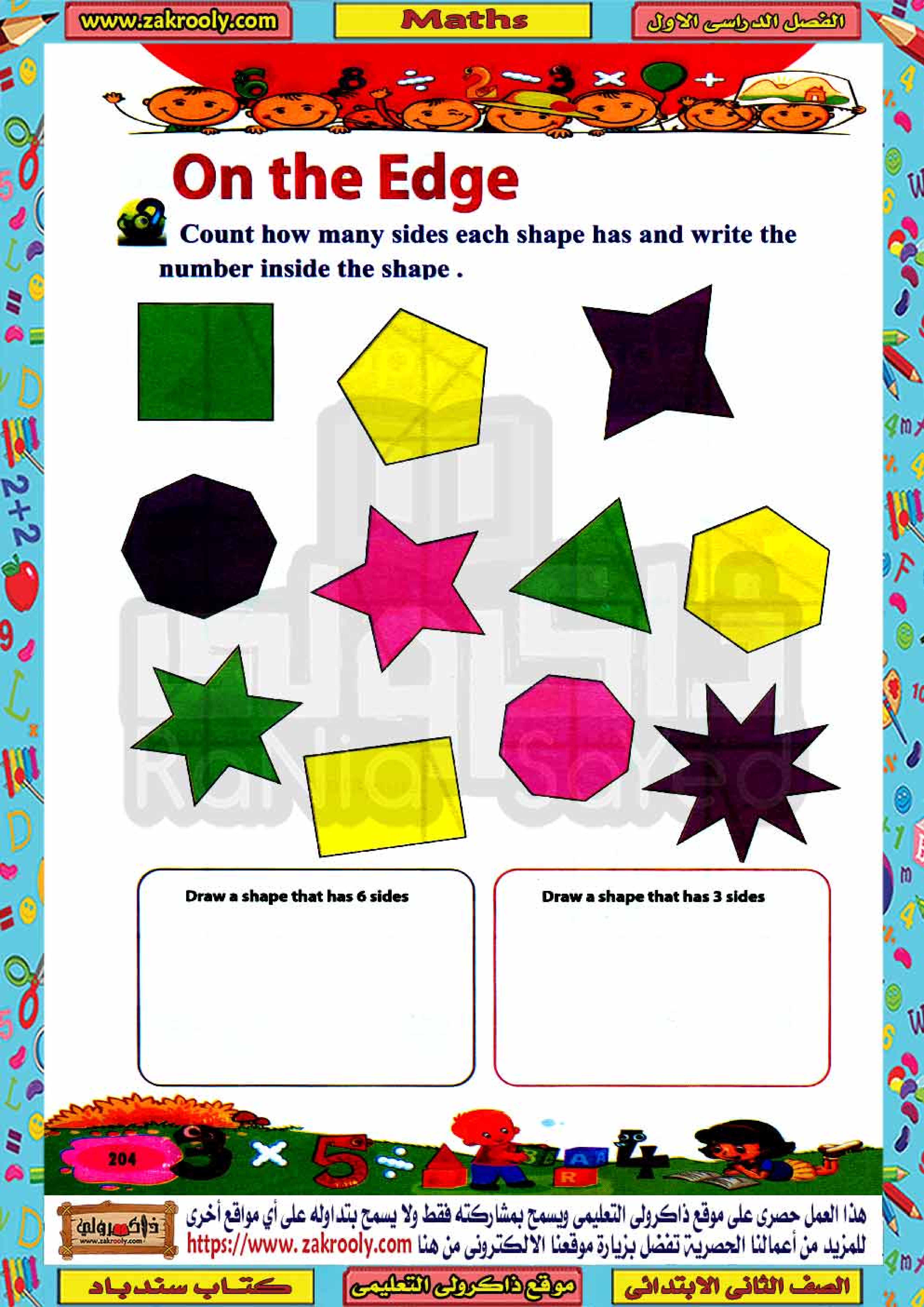




Color triangle –Yellow , square – blue , rectangle - green

On the Edge

Count how many sides each shape has and write the number inside the shape .



Draw a shape that has 6 sides

Draw a shape that has 3 sides



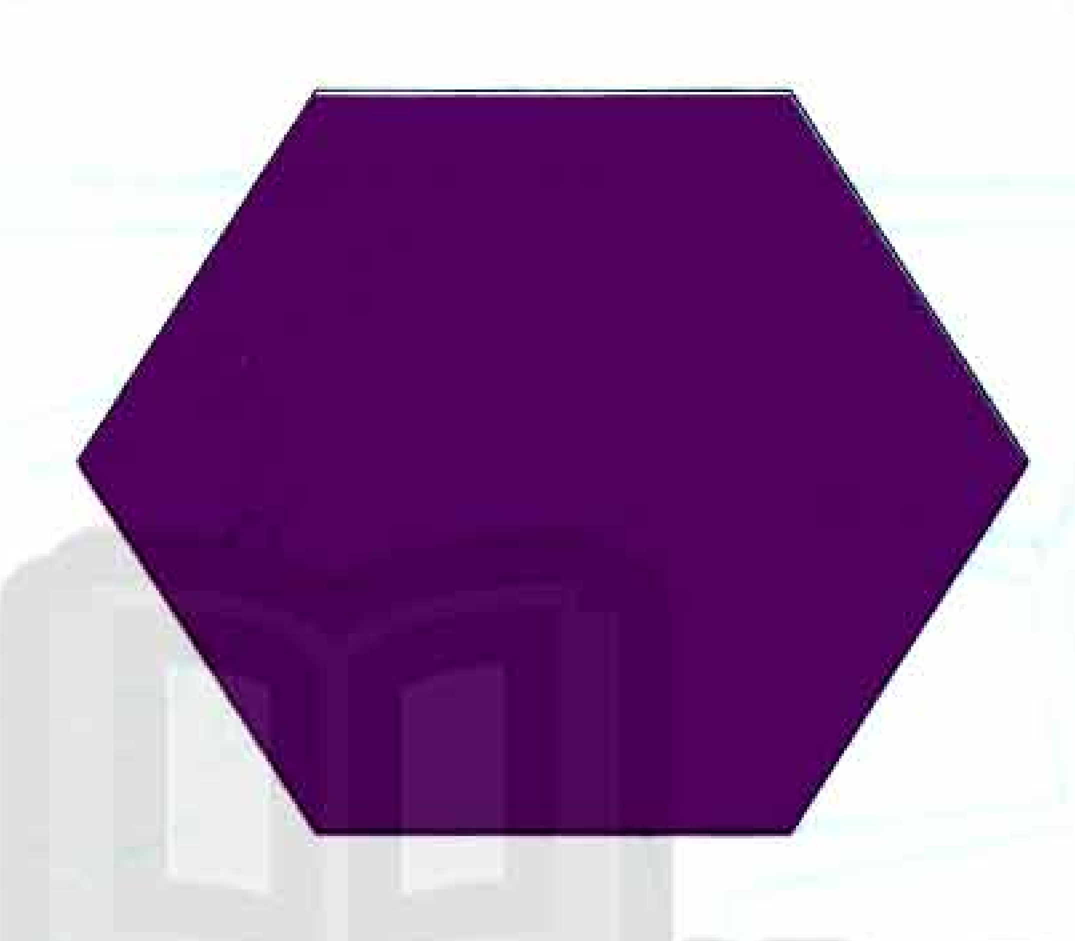
Color all the polygons BLUE. Place a GREEN X over all the shapes that doesn't represent polygons.







Look at the shape and answer the following questions



- How many sides does this shape has? ------- sides
- How many vertices does this shape has? ------- vertices
- Join 2 of the vertices to get two polygons , one of them with 4 sides and the other with 6 sides .

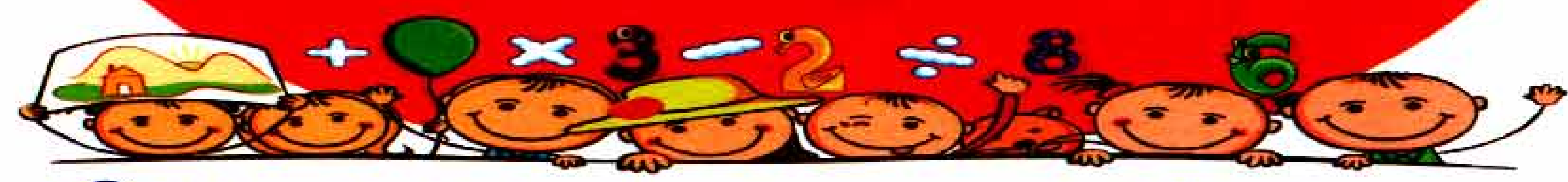
  Then state the name of the 2 polygons

  1- --------------------

  2- --------------------

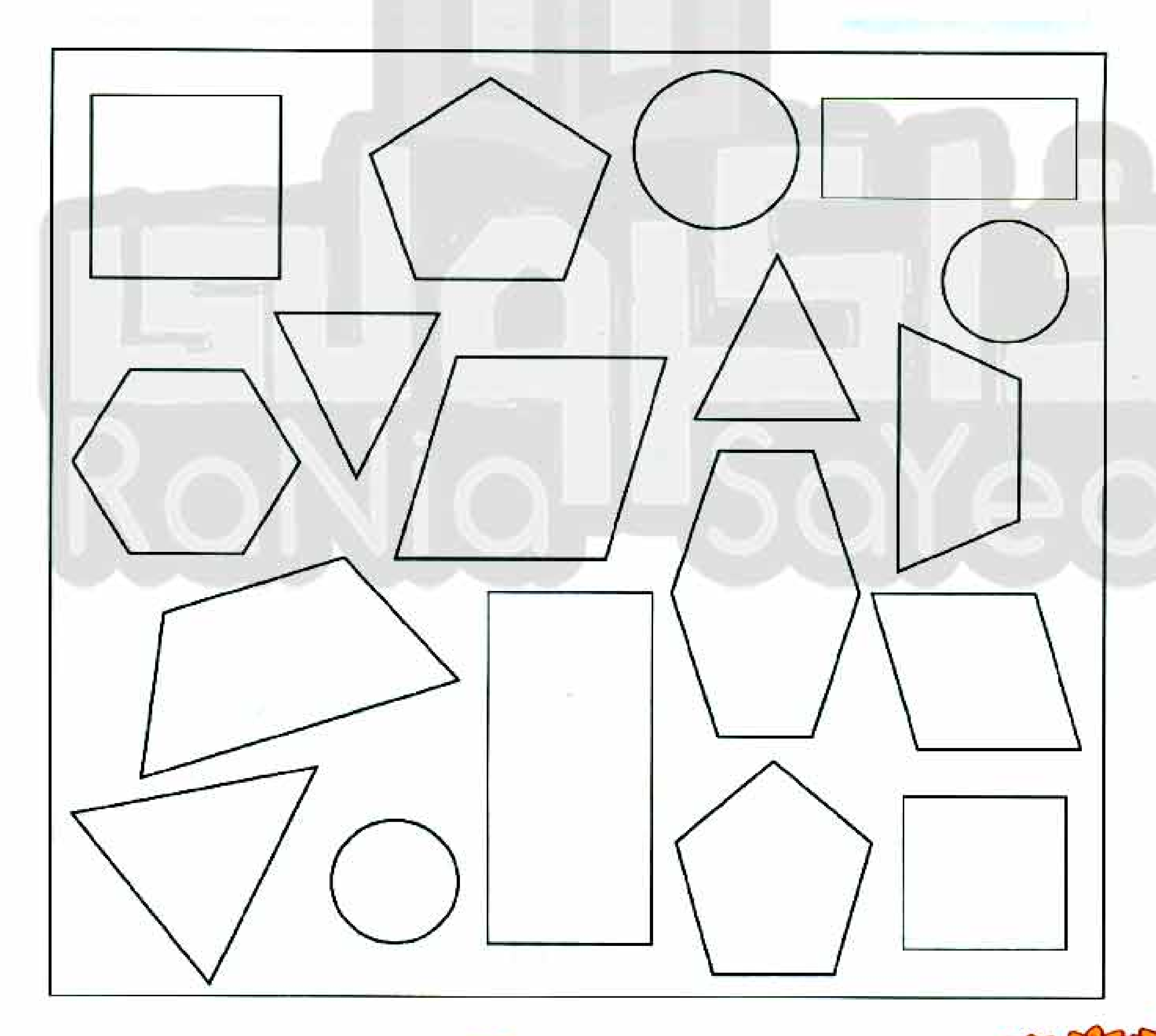






Follow the instructions to answer the following questions .

- Color the shapes that have 3 sides with red .
- Color the shapes that have 4 sides with blue .
- Color the shapes that have 5 sides with green .
- Circle the shapes that has 4 equal sides .
- Put X on the shapes that doesn't belong to polygons .



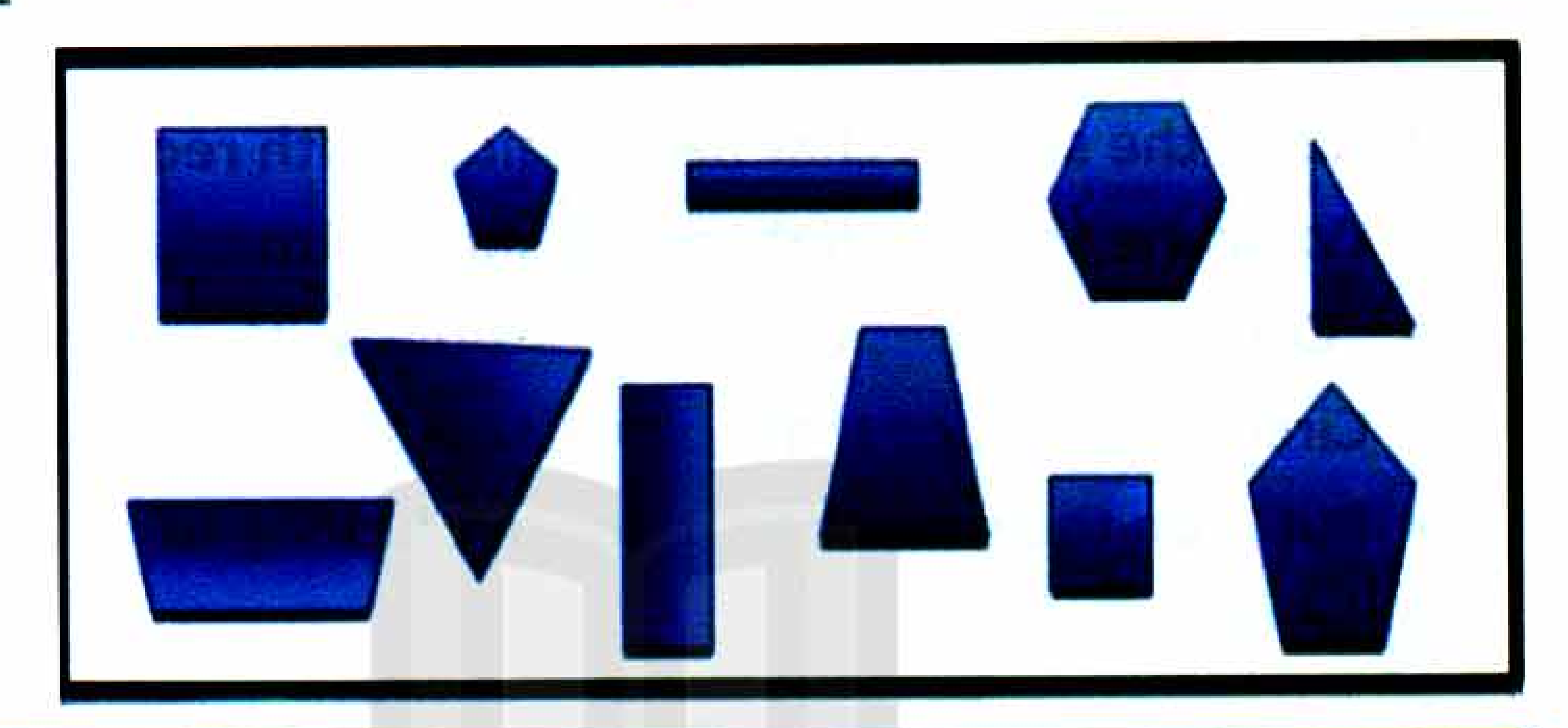








Which from these shapes has the same properties





Who am I ?

- I am a 2-D shape that has 4 equal sides (----------)
- I am a 2-D shape that has 6 sides (----------)
- I am a 2-D shape that has 2 parallel sides(---------)
- I am a 2-D shape that has 3 vertices (----------)
- I am a 2-D shape that has 5 vertices (----------)







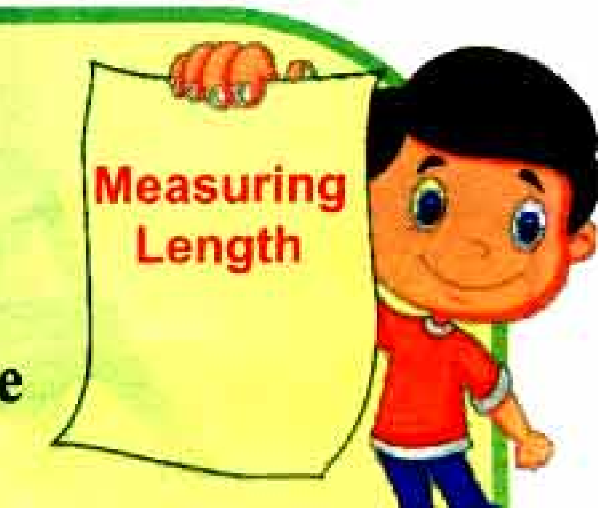
Measuring Length



A word to the parents

By the end of this lesson your child should be able to

- **Recognize measuring uints of length .**
- **Choose and use the suitable units for measuring length .**



Measurement:

Is the measure of how long an object is from one end to another.

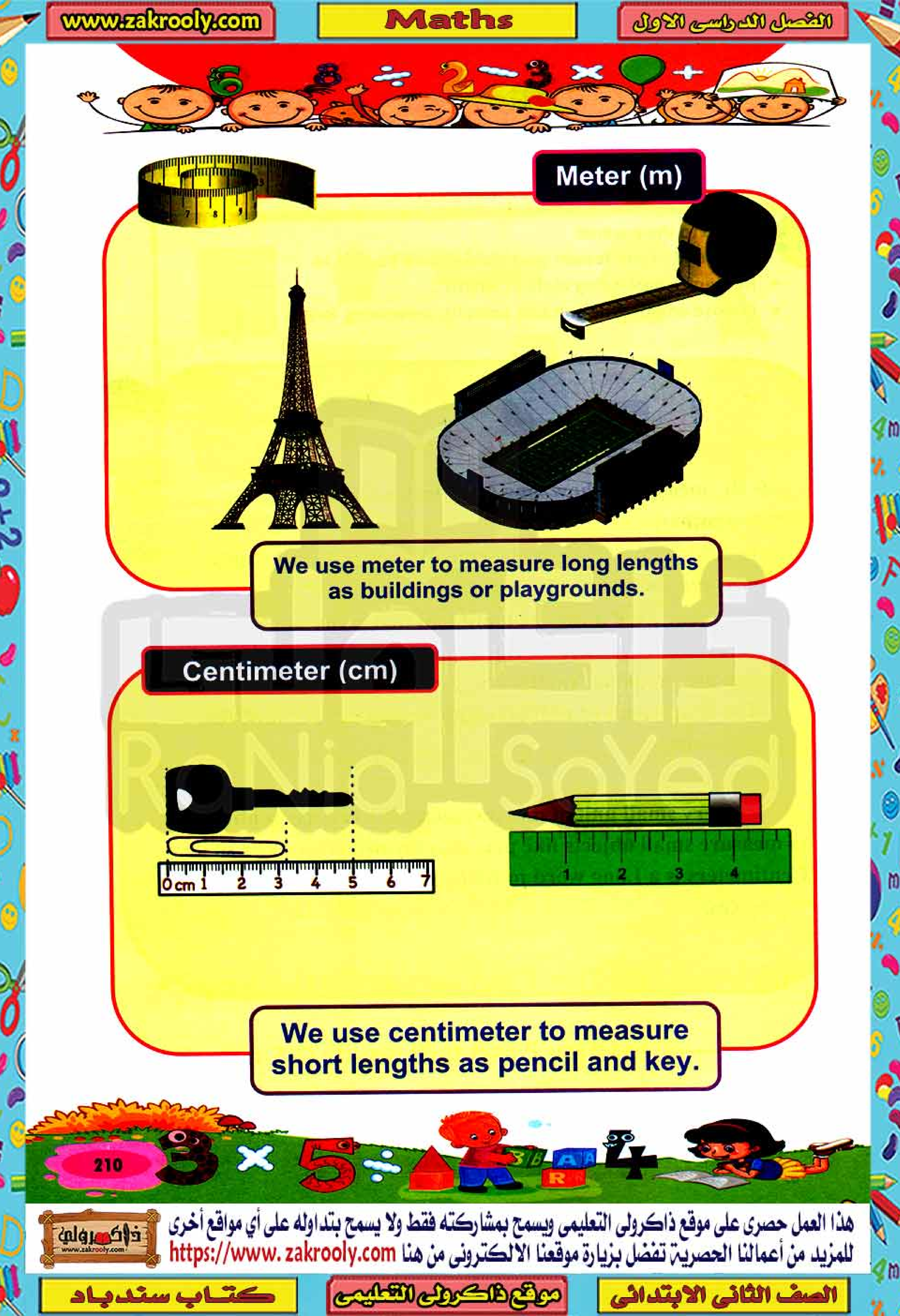
- **In first primary, we used elements such as paper clips , crayons, and straws to measure .**
- **This year , We'll use the math tool that is the same for everyone. This way, we can all measure the same elements and get the same results.**
- **The first standard unit of length we explore is called the Centimeter.**

A centimeter

Is a very small unit of measurement. We can use centimeters to measure small objects like pencils, crayons, eraser and so on. Centimeters is a Long word to write, so we can shorten it by typing cm.





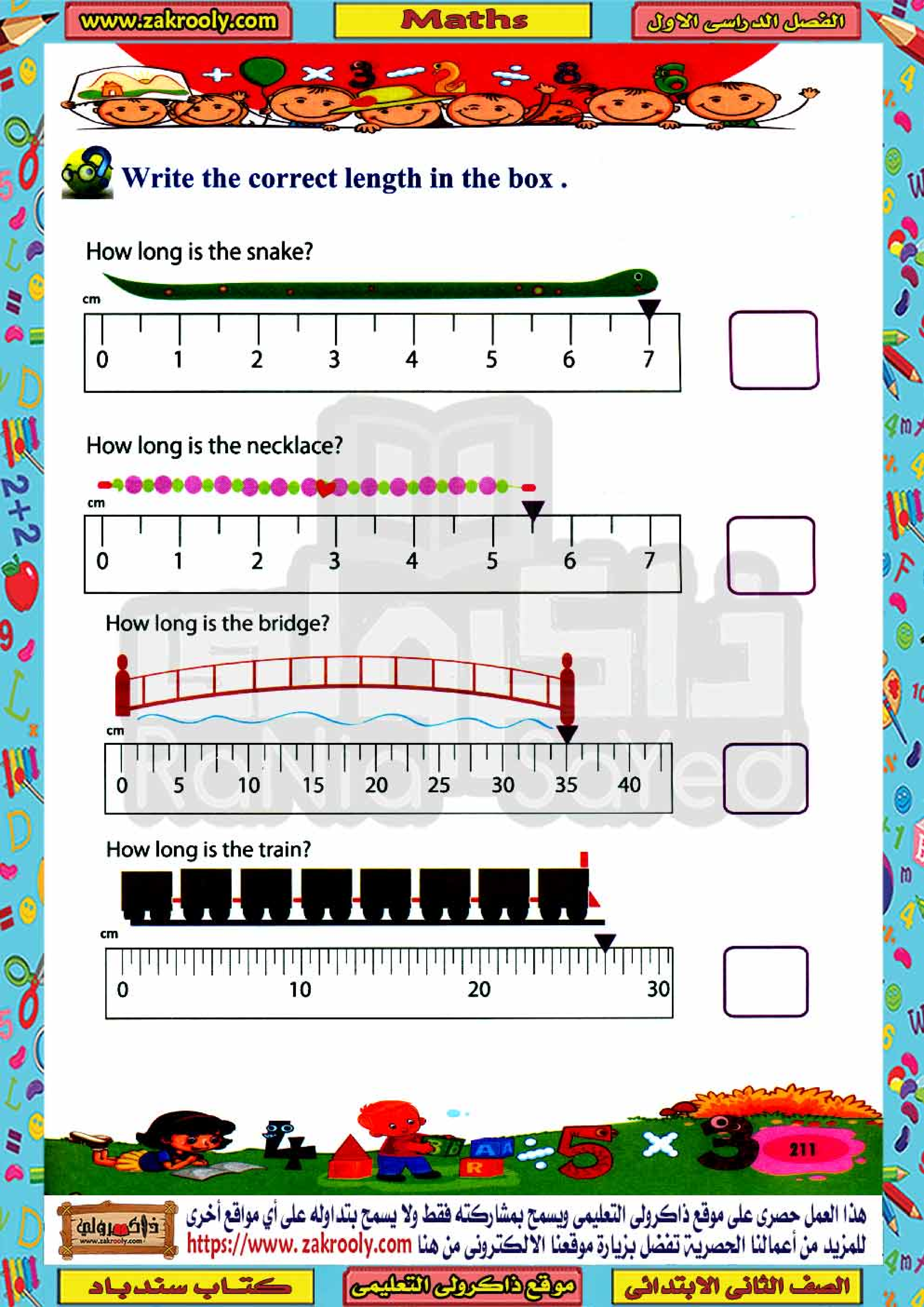


Meter (m)

We use meter to measure long lengths as buildings or playgrounds.

Centimeter (cm)

We use centimeter to measure short lengths as pencil and key.



Write the correct length in the box .

How long is the snake?

cm
0 1 2 3 4 5 6 7

How long is the necklace?

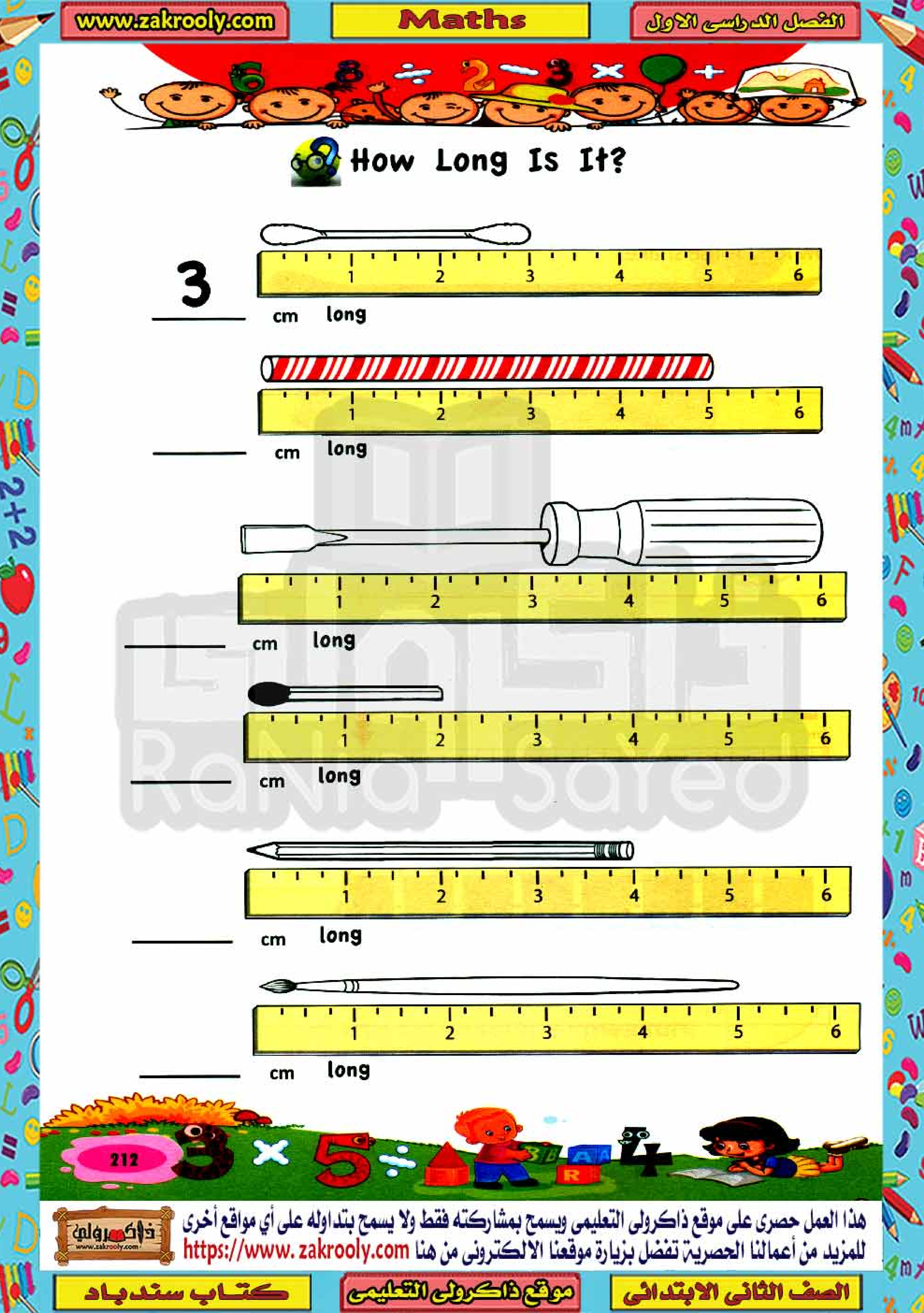
cm
0 1 2 3 4 5 6 7

How long is the bridge?

cm
0 5 10 15 20 25 30 35 40

How long is the train?

cm
0 10 20 30



How Long Is It?

3 cm long

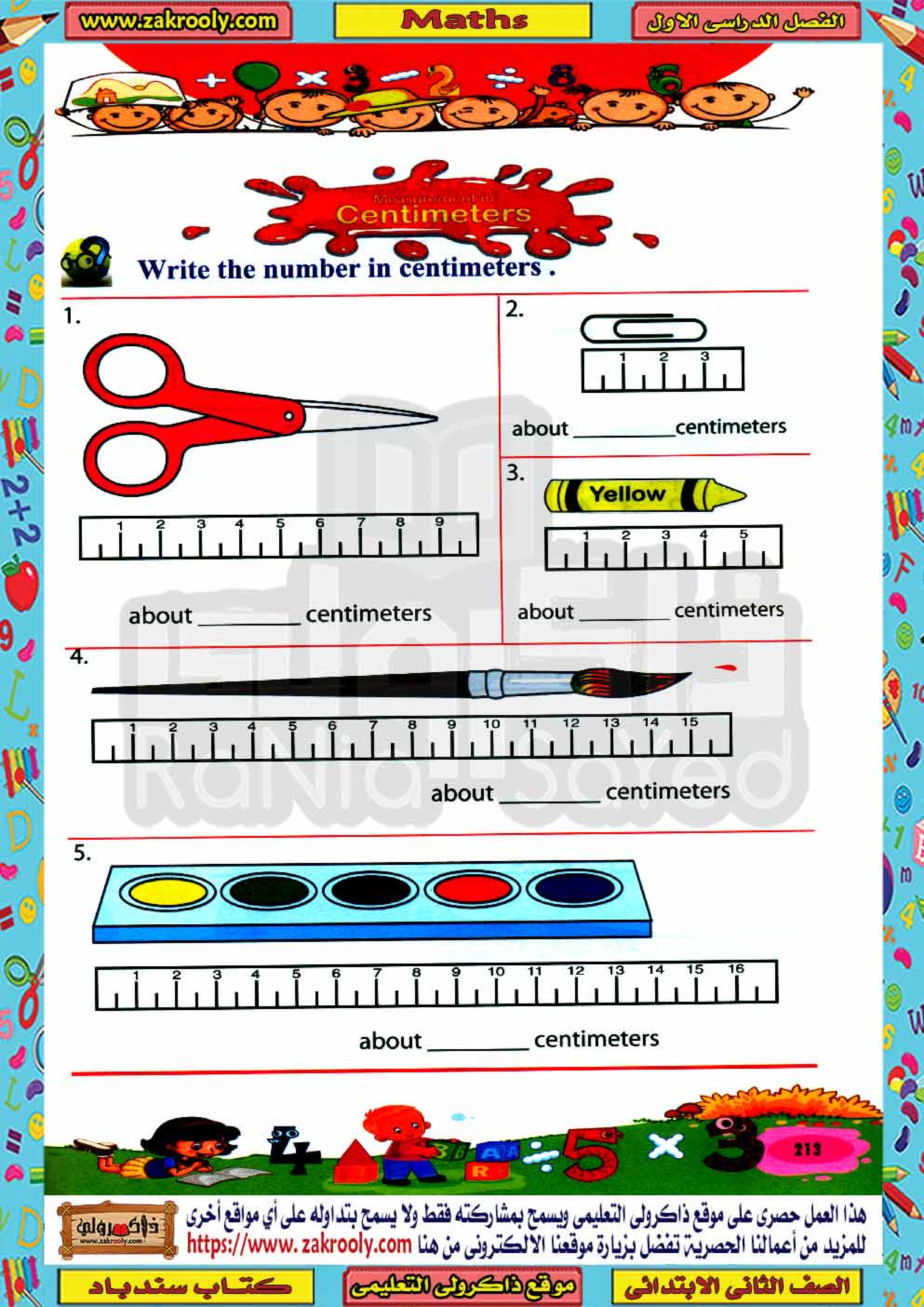
___ cm long

___ cm long

___ cm long

___ cm long

___ cm long



Write the number in centimeters .

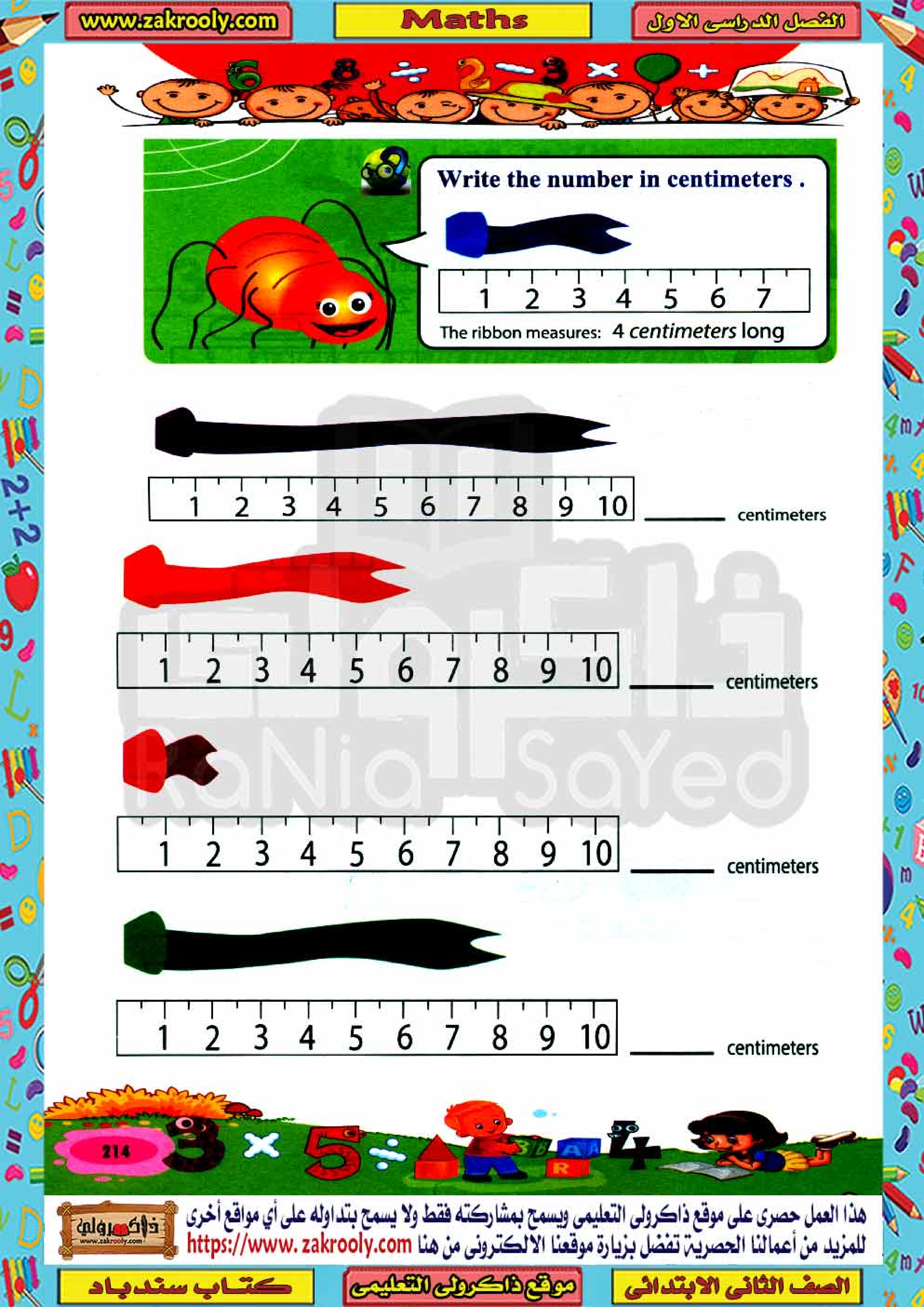
1. about ________ centimeters

2. about ________ centimeters

3. about ________ centimeters

4. about ________ centimeters

5. about ________ centimeters



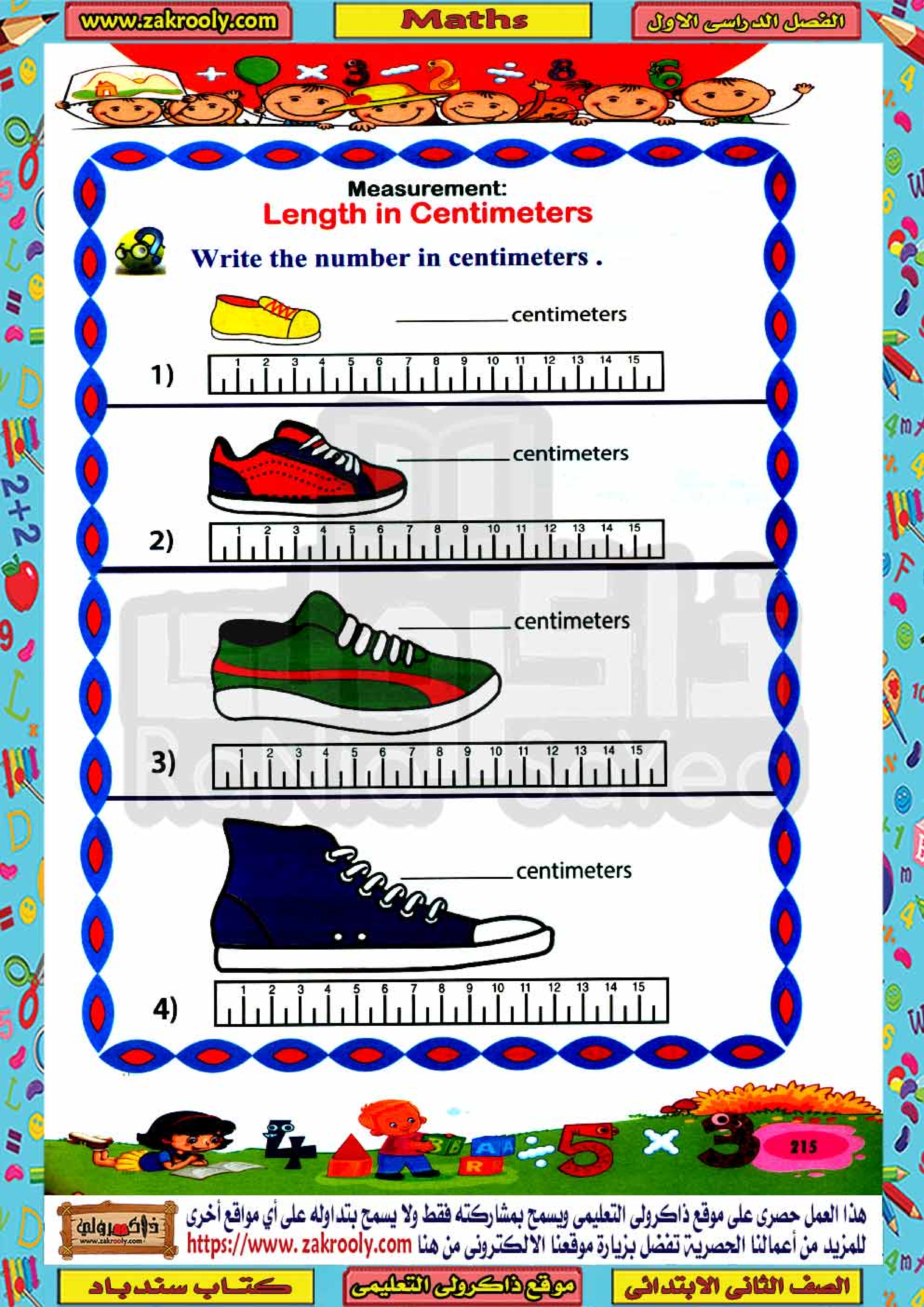
Write the number in centimeters .

1 2 3 4 5 6 7 8 9 10 ______ centimeters

1 2 3 4 5 6 7 8 9 10 ______ centimeters

1 2 3 4 5 6 7 8 9 10 ______ centimeters

1 2 3 4 5 6 7 8 9 10 ______ centimeters



Measurement:
Length in Centimeters

Write the number in centimeters .

1) ________ centimeters

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

2) ________ centimeters

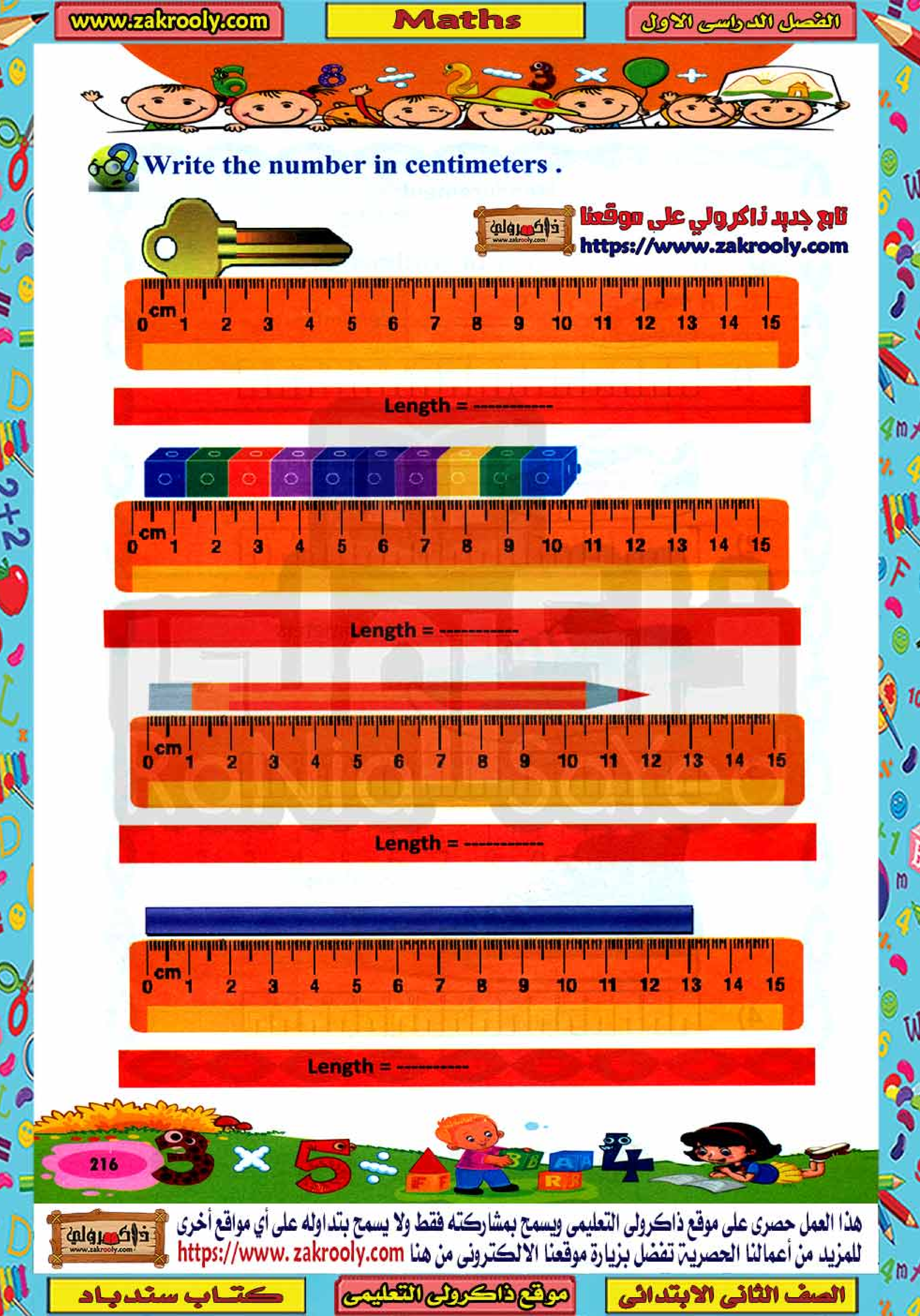
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

3) ________ centimeters

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

4) ________ centimeters

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



Write the number in centimeters .

Length = -----------

Length = -----------

Length = -----------

Length = -----------



Pencil Problems

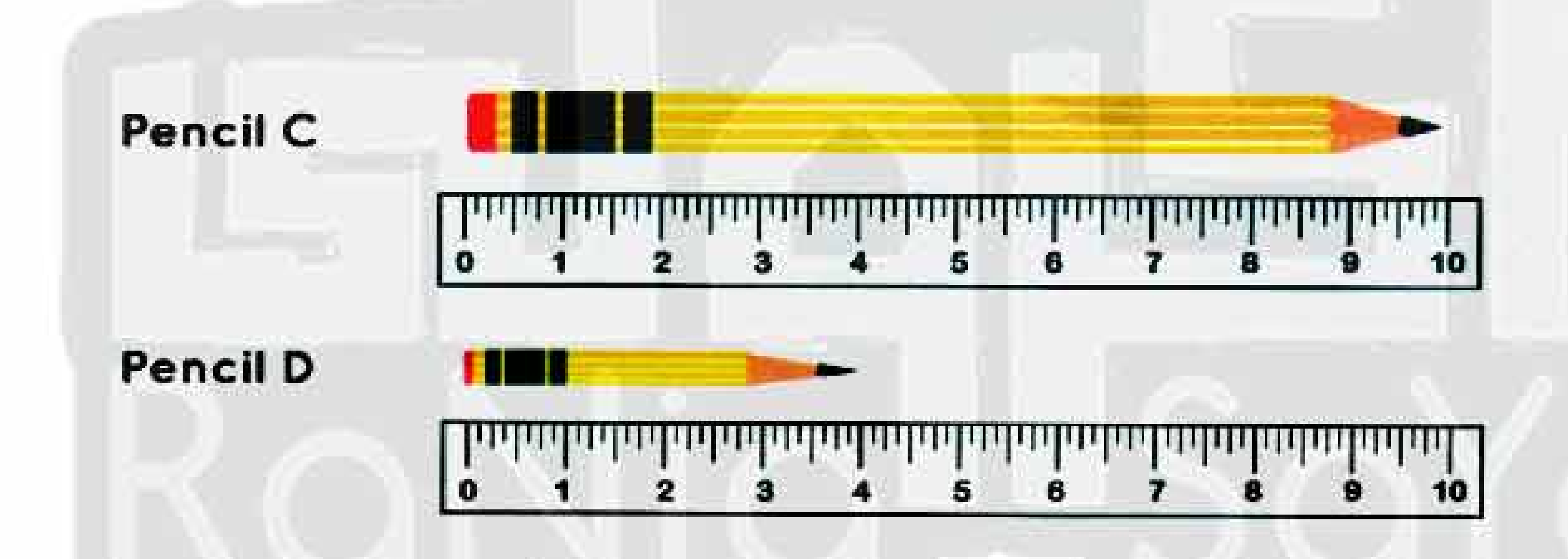


Pencils come in all shapes and sizes ! lets figure out which ones are the longest .

a) Pencil A is 6 cm long . pencil B is 2 cm long . How much longer is pencil A than pencil B ?

Pencil A

Pencil B



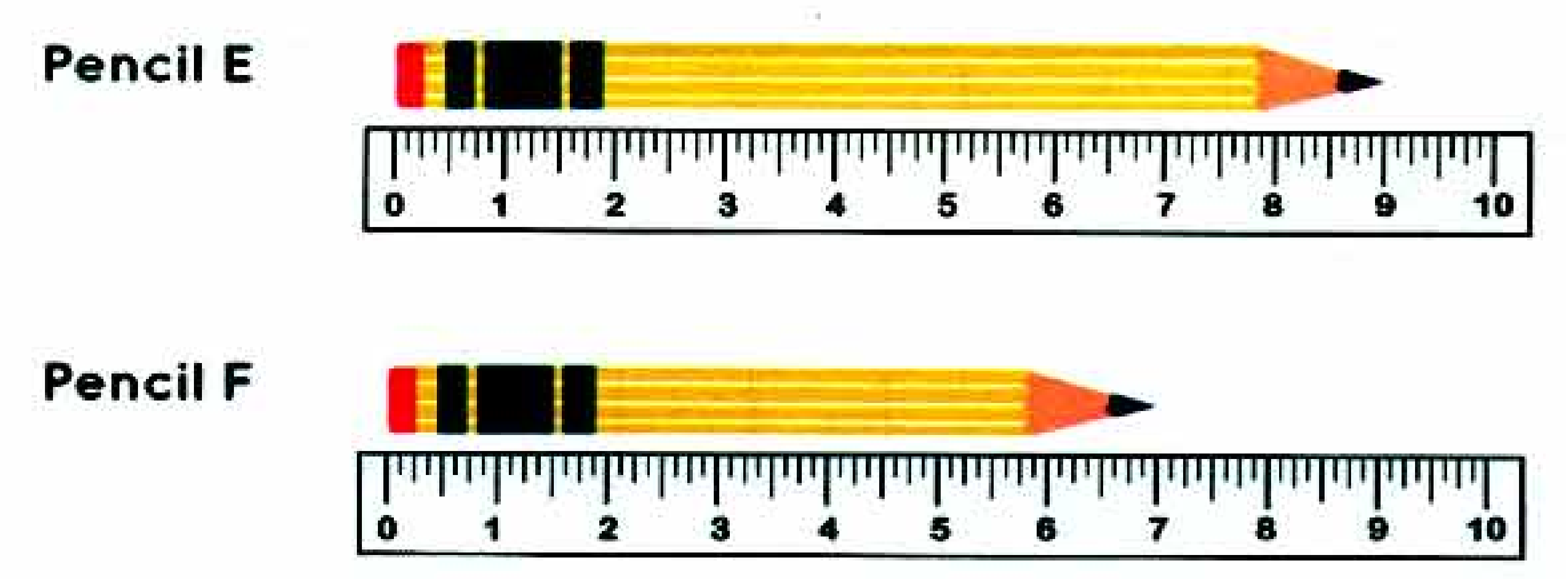
b) Pencil C is 10 cm long . Pencil D is 4 cm long . How much longer is pencil C than pencil D ?

Pencil C

Pencil D

c) Pencil E is 9 cm long . pencil F is 7 cm long . How much longer is pencil E than pencil F ?

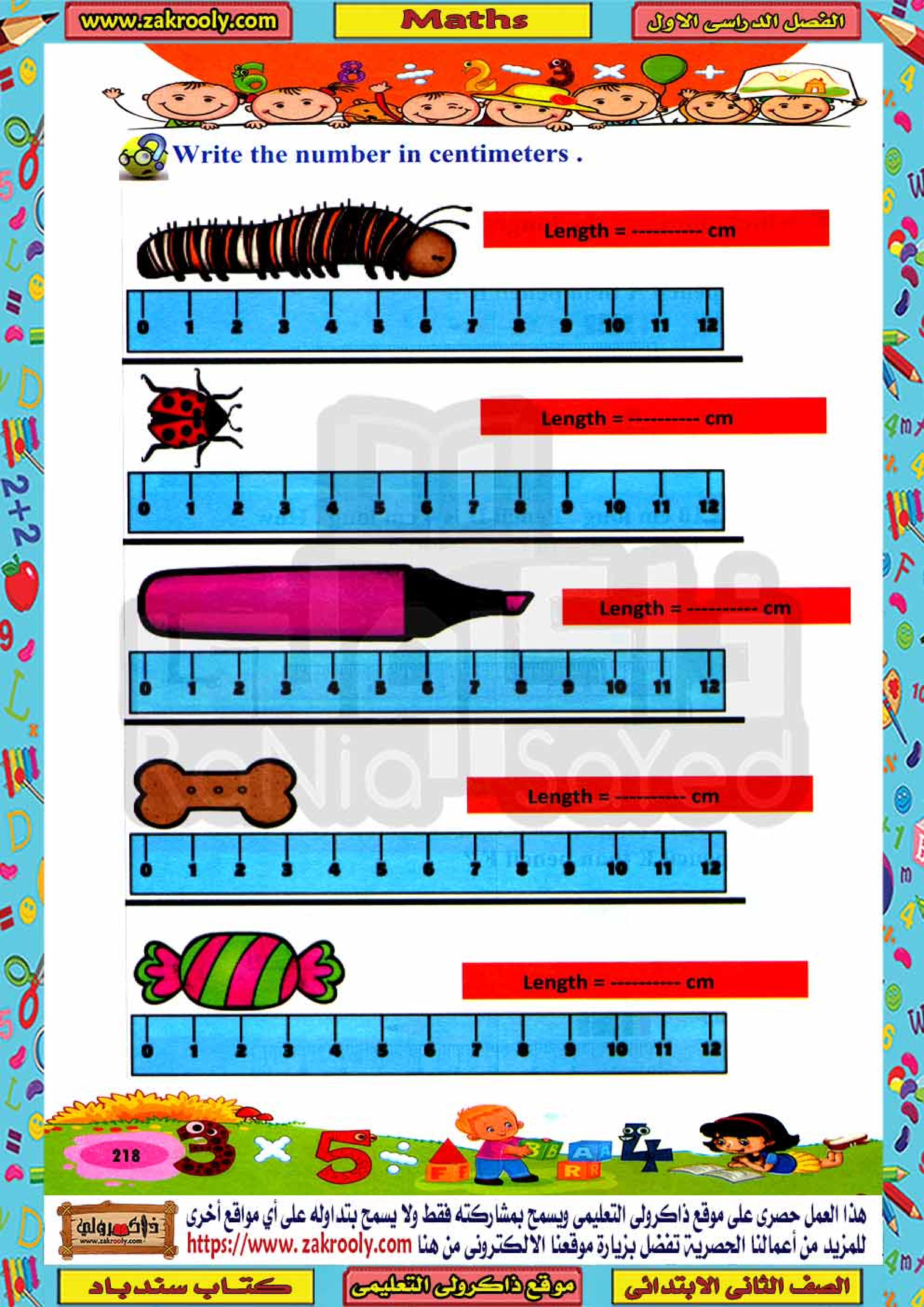
Pencil E



Pencil F







Write the number in centimeters .

Length = ---------- cm

0 1 2 3 4 5 6 7 8 9 10 11 12

Length = ---------- cm

0 1 2 3 4 5 6 7 8 9 10 11 12

Length = ---------- cm

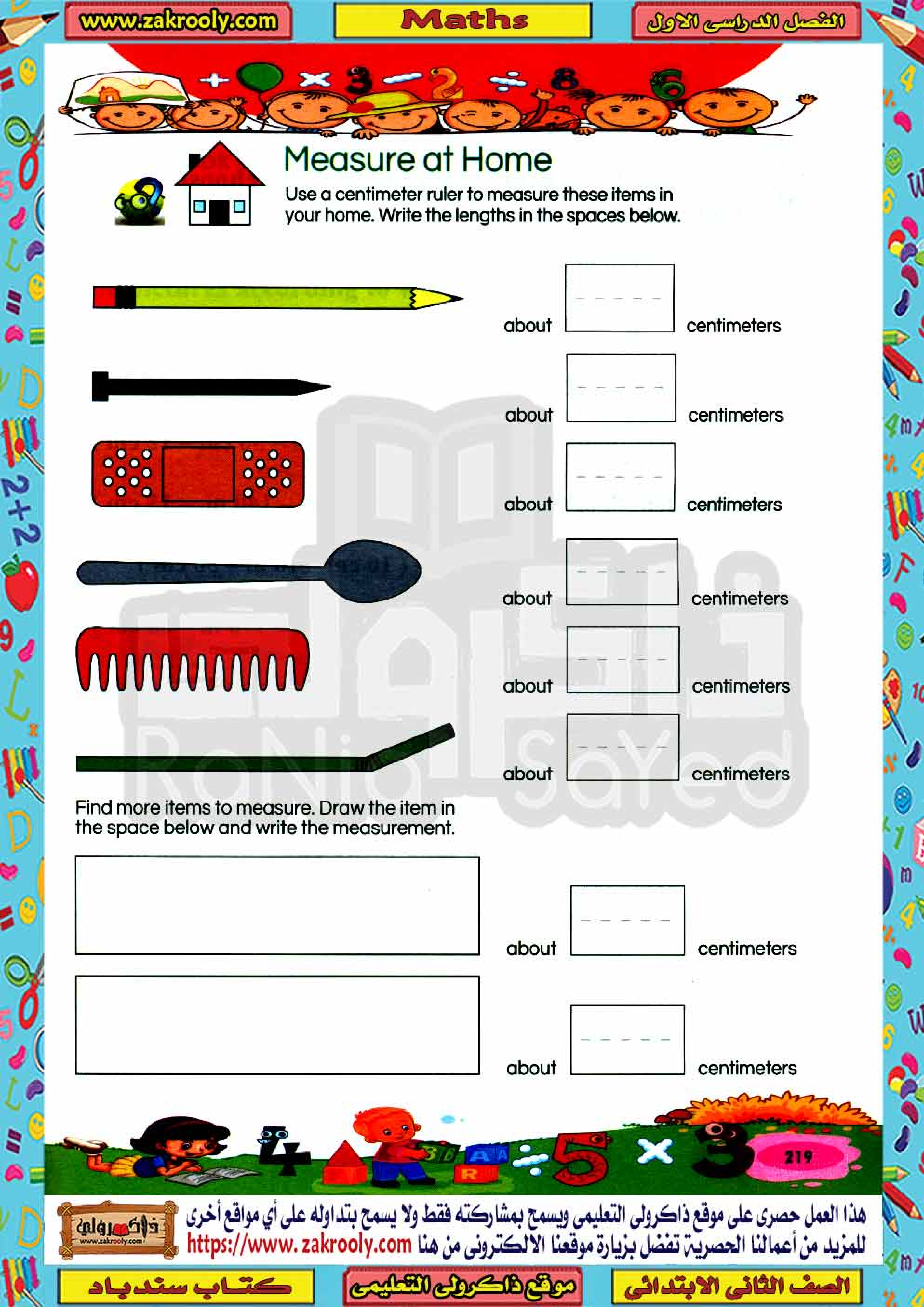
0 1 2 3 4 5 6 7 8 9 10 11 12

Length = ---------- cm

0 1 2 3 4 5 6 7 8 9 10 11 12

Length = ---------- cm

0 1 2 3 4 5 6 7 8 9 10 11 12



Measure at Home

Use a centimeter ruler to measure these items in your home. Write the lengths in the spaces below.

about ____ centimeters

about ____ centimeters

about ____ centimeters

about ____ centimeters

about ____ centimeters

about ____ centimeters

Find more items to measure. Draw the item in the space below and write the measurement.

about ____ centimeters

about ____ centimeters

Estimate the answer in centimeters and choose the correct .

- The length of Maths book ------ (5 cm – 30 cm – 50 cm)
- The length of eraser ------- (5cm – 20 cm – 30 cm)
- The length of your shoes -------- (18 cm – 28 cm – 80 cm)
- The length of your pencil -------- (5 cm – 30 cm – 12 cm)
- The length of the pyramid -----(60 cm – 140 m. – 15 cm)
- The length of the car -------- (10 cm – 10 m – 50 cm)
- The length of Cairo tower ------ (17cm – 170 m – 50 cm)

Draw a line with 5 cm long using ruler and a pencil .

Draw a line with 7 cm long using ruler and a pencil .



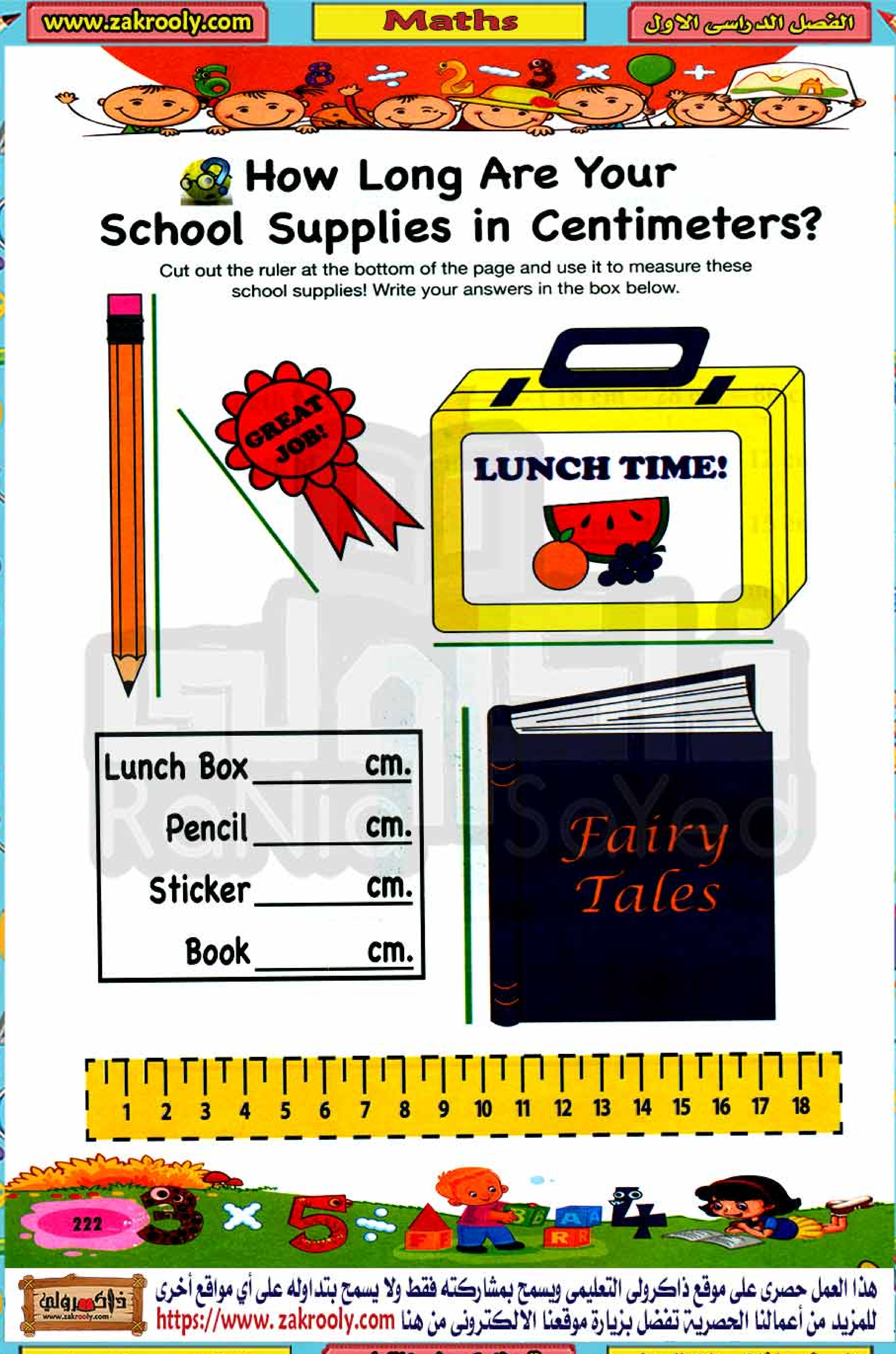
Ahmed took some measurements for his friend and he recorded the lengths (28 cm , 1m , 15 cm , 45 cm)

Write each of these lengths in the correct place on the pictures according to what you think .









How Long Are Your School Supplies in Centimeters?

Cut out the ruler at the bottom of the page and use it to measure these school supplies! Write your answers in the box below.

Lunch Box ________ cm.

Pencil ________ cm.

Sticker ________ cm.

Book ________ cm.

How would you measure?

...an elephant?

m cm

...an arm?

cm m

...a pencil?

m cm

...a fork?

m cm

...a car?

m cm

...a car?

m cm





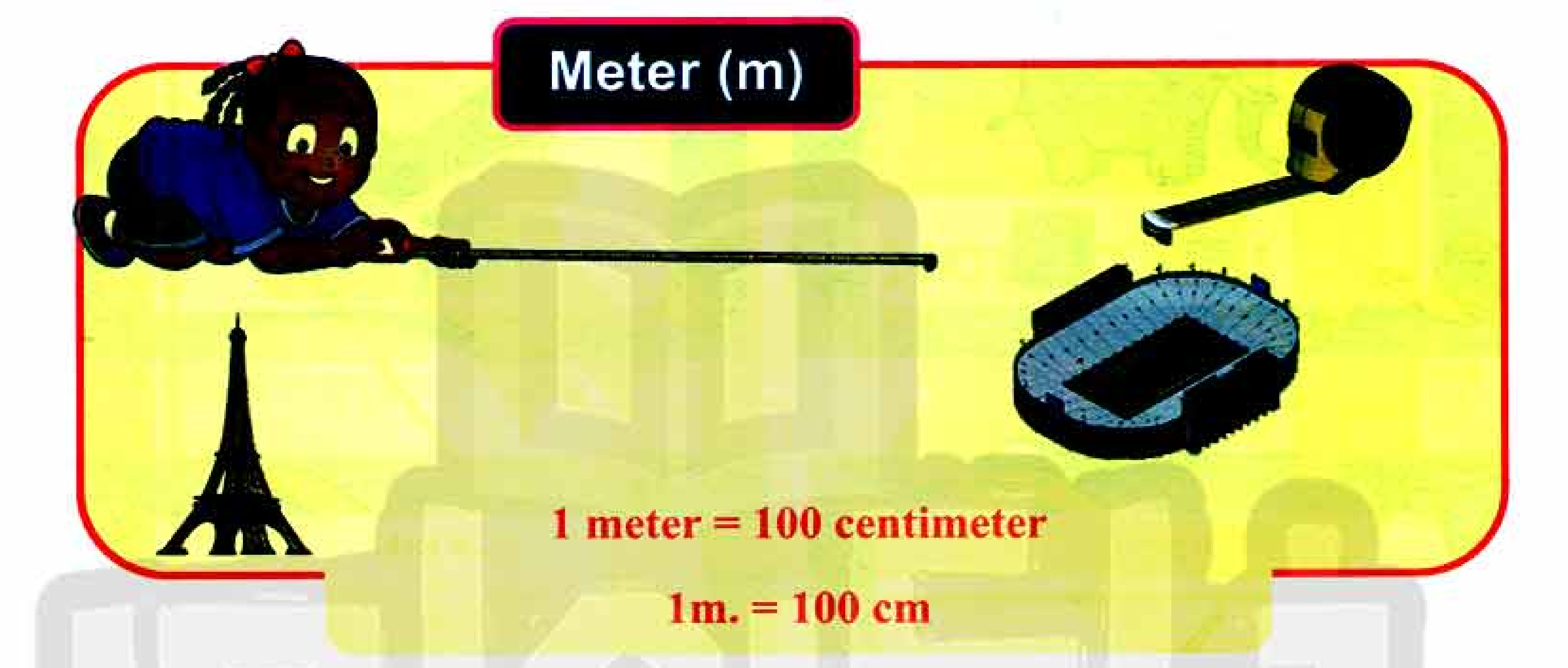


Meter and Centimeter

A word to the parents .
By the end of this lesson your child would be able to

- Change from meter to centimeter and vice versa .
- Compare and order objects according to their lengths .

Meter (m)



1 meter = 100 centimeter

1m. = 100 cm

Example

If 1 meter (m.) = 100 centimeter (cm) .

Then 5 m. = 500 cm \ 700 cm = 7 m.

Notice that

6 m. and 35 cm = 600 + 35 = 635 cm
And also
815 centimeters = 8 meter and 15 centimeters









Express the following lengths as in the example .

Example 6 meter = 600 cm

- 10 meter = ---------- cm
- 7 meter = ---------- cm
- ---------- m. = 500 cm
- 9 m. = ---------- cm
- 2 meter = ---------- cm
- ---------- m. = 500 cm
- 100 cm = ---------- m.
- 8 m. = ---------- cm



Express the following lengths as in the example .

Example 200 cm = 2 m.

- 300 cm = ---------- m.
- 500 cm = ---------- m.
- 900 cm = ---------- m.
- 400 cm = ---------- m.
- 600 cm = ---------- m.
- 700 cm = ---------- m.
- 100 cm = ---------- m.
- 800 cm = ---------- m.









Express the following lengths as in the example .

Example 3 meters and 65 centimeters = 365 cm

- 4 meters and 75 centimeters = ------- + ------- = ------ cm
- 7 meters and 23 centimeters = ------- + ------- = ------ cm
- 8 meters and 15 centimeters = ------- + ------- = ------ cm
- 6 meters and 50 centimeters = ------- + ------- = ------ cm
- 9 meters and 12 centimeters = ------- + ------- = ------ cm
- 3 meters and 32 centimeters = ------- + ------- = ------ cm
- 2 meters and 63 centimeters = ------- + ------- = ------ cm
- 1 meter and 10 centimeters = ------- + ------- = ------ cm



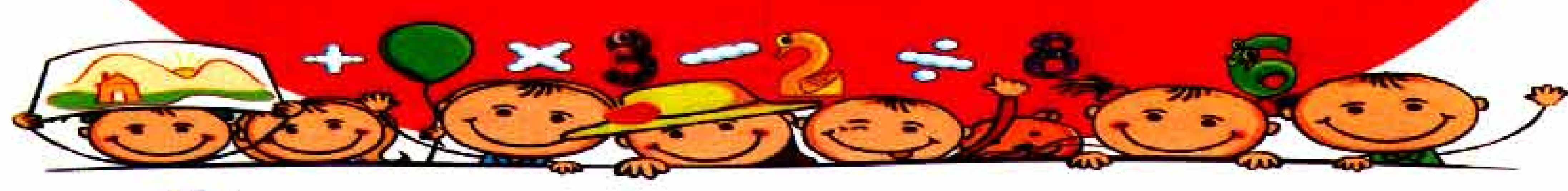
Express the following lengths as in the example .

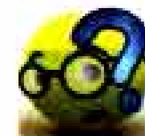
Example 545 centimeters = 5 meters and 45 centimeters

- 710 centimeters = -------meters and ------- centimeters
- 320 centimeters = -------meters and ------- centimeters
- 875 centimeters = -------meters and ------- centimeters
- 990 centimeters = -------meters and ------- centimeters
- 623 centimeters = -------meters and ------- centimeters
- 250 centimeters = -------meters and ------- centimeters
- 643 centimeters = -------meters and ------- centimeters
- 888 centimeters = -------meters and ------- centimeters









put < , > or = .

- 2 meter and 23 centimeter (<) 233
- 1 meter and 73 centimeter ( ) 174 centimeters
- 2 meter and 50 centimeter ( ) 250 cm
- 3 meter and 63 centimeter ( ) 633 cm
- 938 cm ( ) 9m.and 89 cm
- 823 cm ( ) 8m.and 32 cm
- 4 meter and 56 centimeter ( ) 465 cm

Arrange the following lengths ascendingly and descendingly .

80 cm , 740 cm , 6 m. , 980 cm

Ascendingly --

Descendingly --

6 meter , 590 cm , 705 cm , 650 cm

Ascendingly --

Descendingly --





8 meter , 127 cm , 1m. , 890 cm

Ascendingly ---

Descendingly ---

5 m. , 590 cm , 410 cm , 665 cm

Ascendingly ---

Descendingly ---

880 cm , 65 cm , 2 m. , 242 cm

Ascendingly ---

Descendingly ---

774 cm , 147 cm , 1meter + 74 cm , 1m.

Ascendingly ---

Descendingly ---



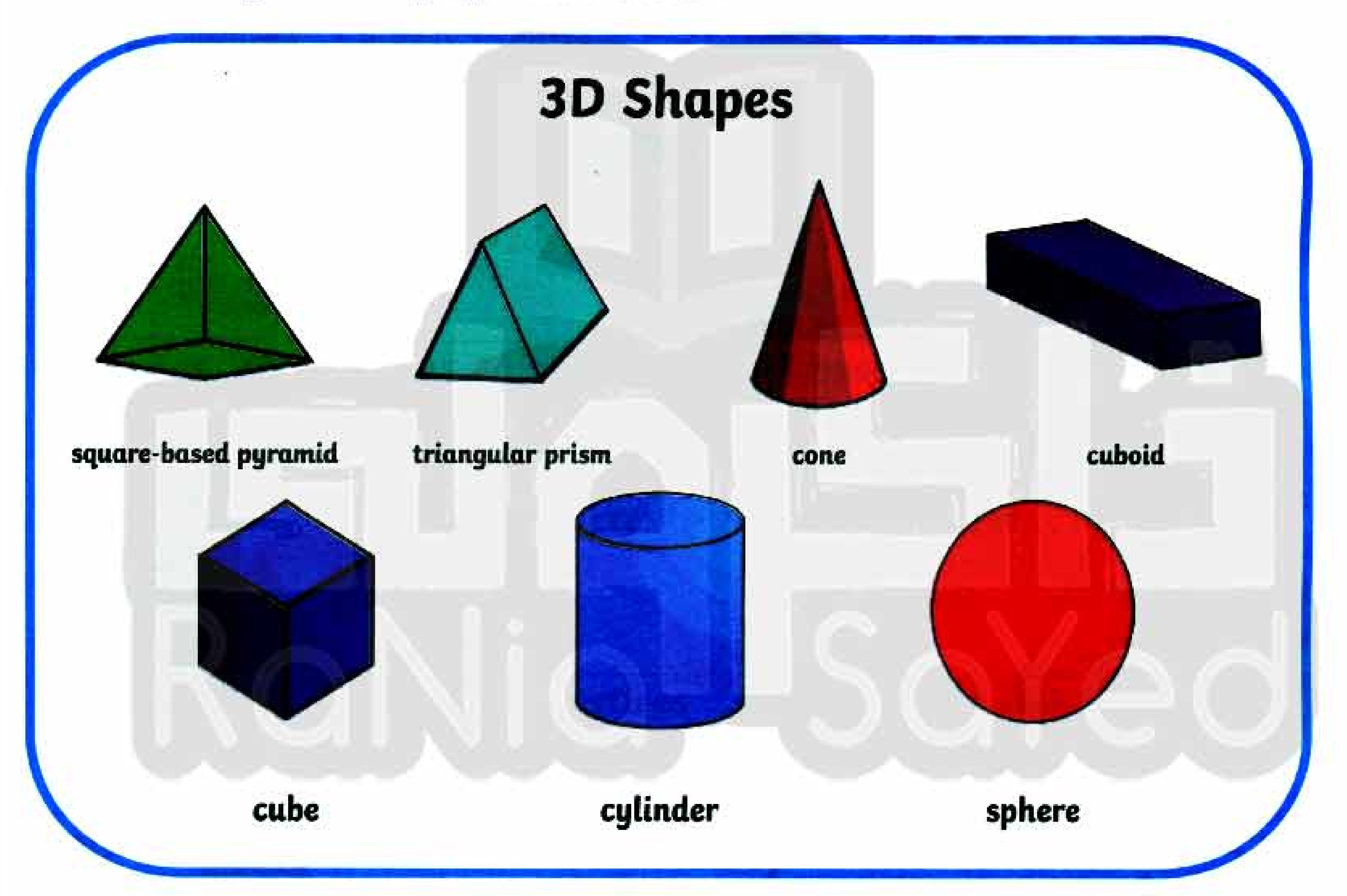


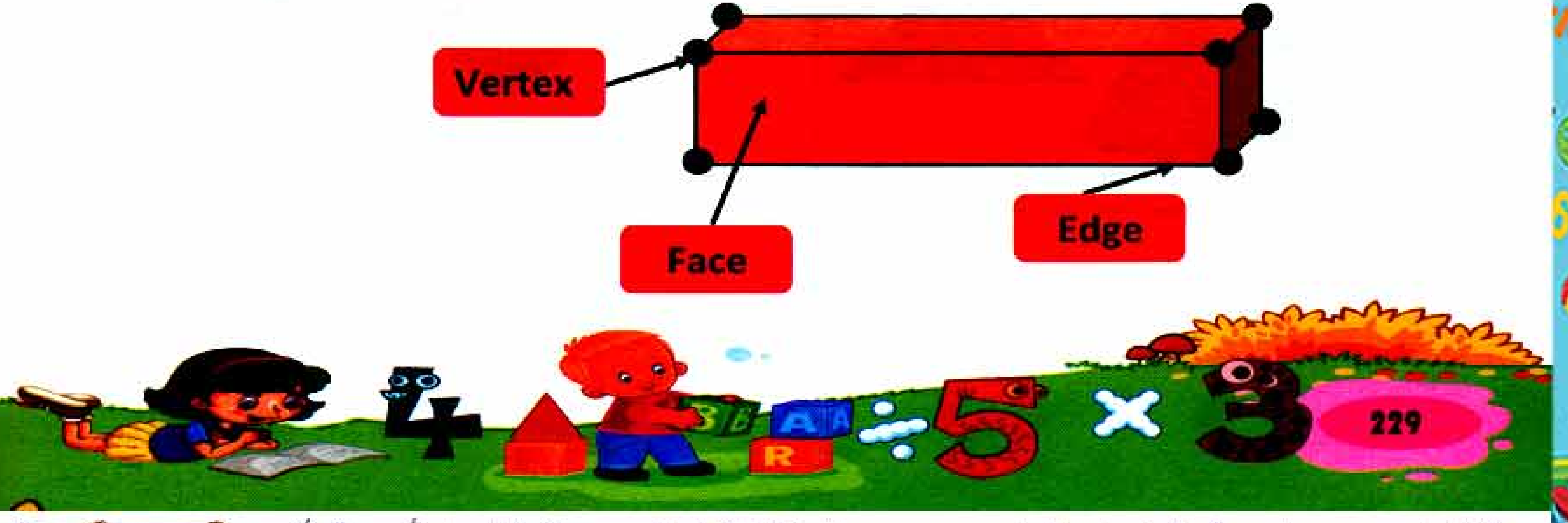
Solids
3-D Shapes

A word to the parents

By the end of this lesson your child should be able to

- **Recognize the name of the following solids .**
- **Recognize some properties of solids .**







Read and learn the names of the solids.

Cuboid

Cube

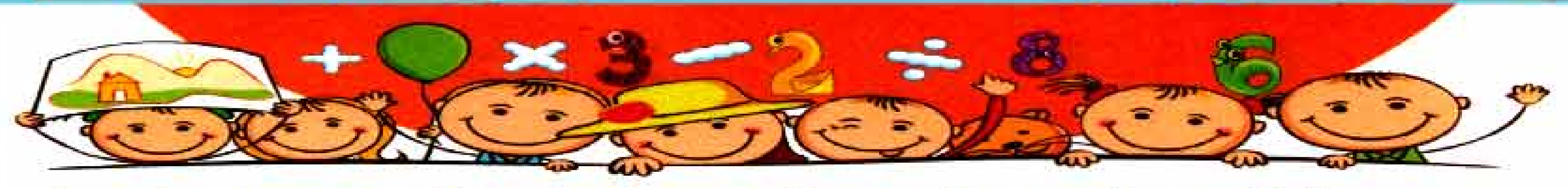
Prism

Cone

Cylinder

Pyramid

Sphere



Let's learn the properties of each solid .

Solid	Properties
Cube	It has • 8 vertices • 12 edges • 6 faces Each face is a square .
Cuboid	It has • 8 vertices • 12 edges • 6 faces Each face is a rectangle .
Square- based pyramid	It has • 5 vertices • 1 square base • 8 edges • 4 side faces (each face is atriangle
cylinder	It has • no vertices • 2 bases each base is a circle
Cone	It has • 1 vertex • 1 bases , base is a circle
triangular prism	It has • 6 vertices • 3 side faces each is a rectangle • 9 edges • 2 bases, each is a triangle.
sphere	It has • no vertices • no edges • no faces
Triangular pryramid	It has • 4 vertices • 6 edges • 3 side faces , each is a triangle. • 1 base , base is a triangle.





Shape Match

Cut out the names of each shape then paste them next to the correct object.

Circle the shapes that are cylinder shaped .



Shapes

Look at each illustration. What kind of shape is pictured?

Color in the bubble next to the correct answer.

1.

triangle	diamond	pyramid	cone
○	○	○	○

2.

star	hexagon	pentagon	octagon
○	○	○	○

3.

sphere	cone	cylinder	circle
○	○	○	○

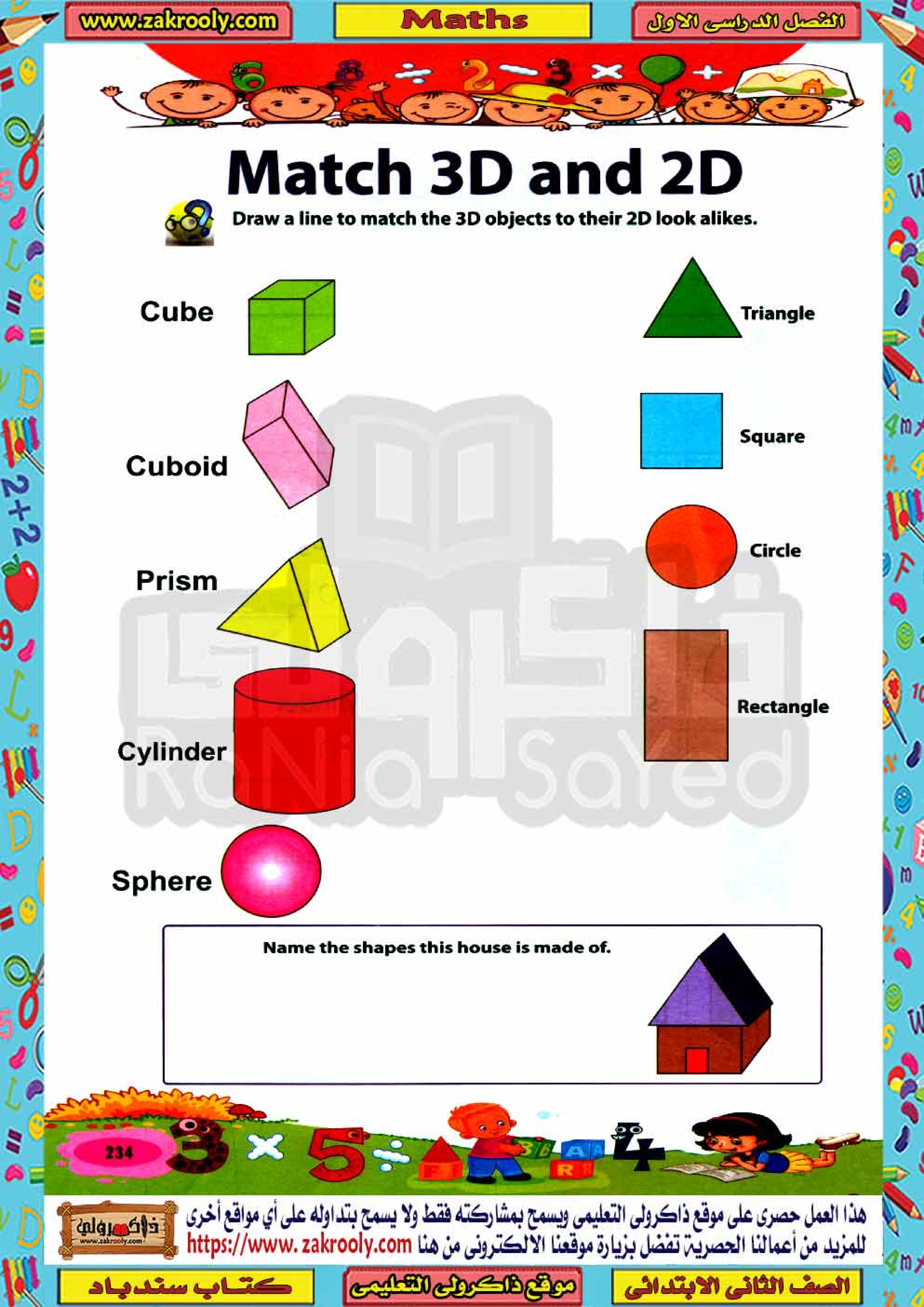
4.

hexagon	oval	octagon	heart
○	○	○	○

5.

trapezoid	cube	rectangle	square
○	○	○	○





Match 3D and 2D

Draw a line to match the 3D objects to their 2D look alikes.

Cube	Triangle
Cuboid	Square
Prism	Circle
Cylinder	Rectangle
Sphere	

Name the shapes this house is made of.



join each solid with its name .

Cone

Cube

Cuboid

Cylinder

Pyramid

Prism

Sphere

Put a circle around the solid that matches that shape



Complete each of the following .

Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces
Name	---------	--- Vertices	--- Edges	--- Faces







Complete the following .

- The number of edges of a cone is ----------------
- The ----------------- has 9 edges .
- The number of vertices of a cuboid is --------------
- The base of a cylinder is ------------------
- The number of faces in a triangular prism is ------
- The number of vertices of a cone is ---------------
- The number of side faces of a triangular prism is --- and each face is a -------------------
- Each face of the faces of the cube is ---------------
- The number of edges in a sphere is --------------
- The base of a square based pyramid is a ----------
- What is the name of the solid that all its faces is a rectangle ? -----------------





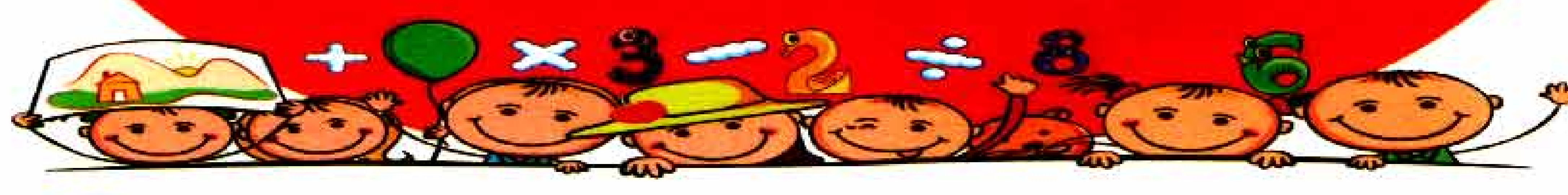


- What is the name of the solid whose faces are all triangles ? -------------------
- What is the name of the solid that has 2 bases in the form of a circle ? -------------------
- What is the name of the solid whose 2 bases are triangle ? -------------------
- What is the name of the solid that has 1 circular base and 1 vertex ? -------------------
- What is the name of the solid whose faces are all squares ? -------------------
- What is the name of the solid that has 9 edges ?- -----------------------
- What is the name of the solid that has 8 edges ?- -----------------------





Join each solid with it's net .



Complete the table .

Name	Number of vertices	Number of edges	Number of faces
Cube			
Square-based pyramid			
Triangular pyramid			
Cuboid			
Sphere			
Cone			
Triangular prism			
Cylinder			









Measuring Weight

Chapter 6
Lessons
from 51-60



A word to the parents

By the end of this lesson your child should be able to

- Recognize the the weight and it's measuring .
- Compare between weights .

Weight is the measure of how heavy an object is

Example

We use scales for measuring weight of an object .

For light objects like measuring the weight of fruits or gold we use these scales

And the measuring unit for weight is

Gram (g.) for light objects and

kilogram (Kg.) for heavy objects





Which is ?

Which is heavier?

Which is lighter?

Which is heavier?

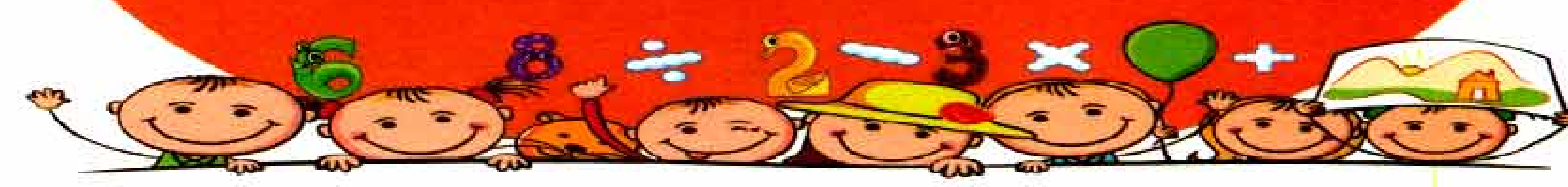
Which is lighter?

Which is heavier?

Which is lighter?

Which is heavier?

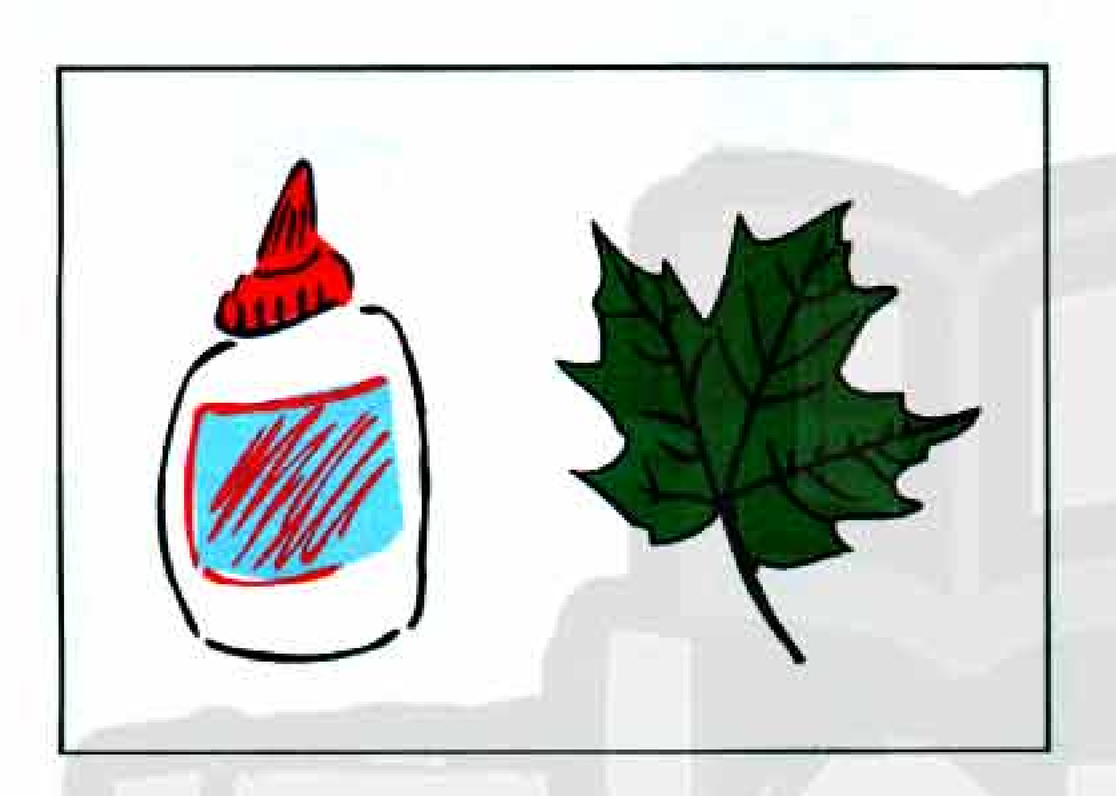
Which is lighter?

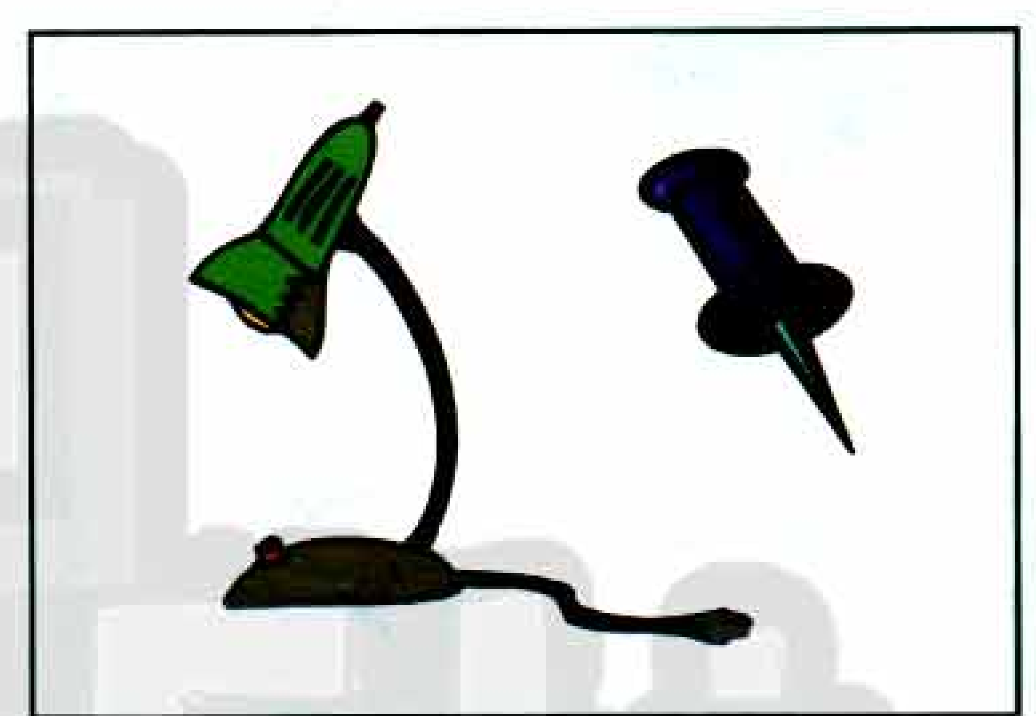


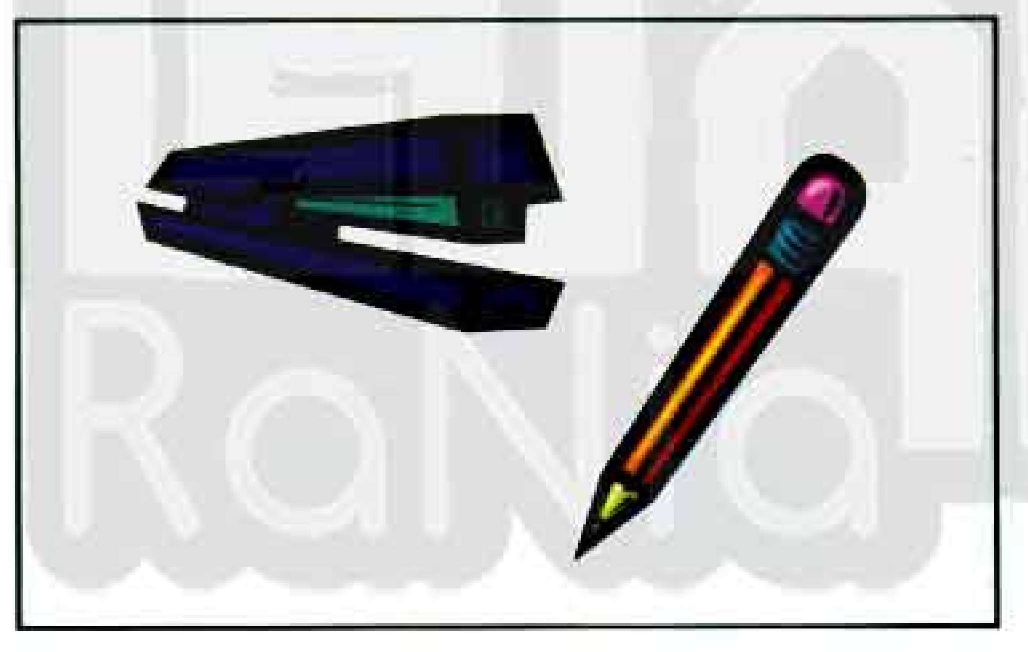
Weight



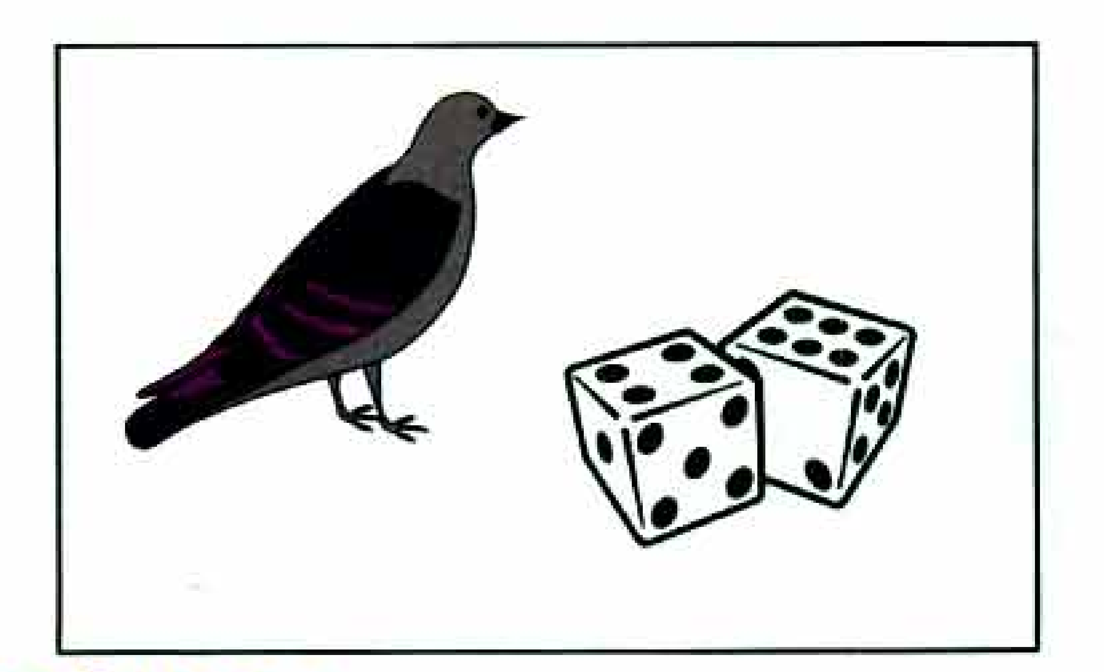
Circle the object that is heavier.

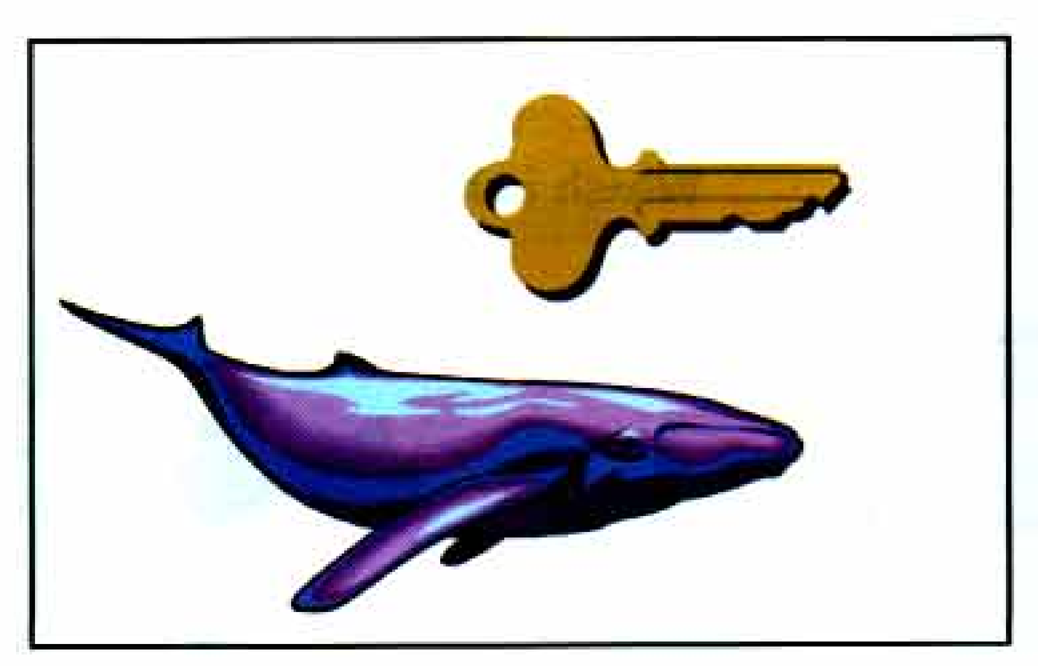








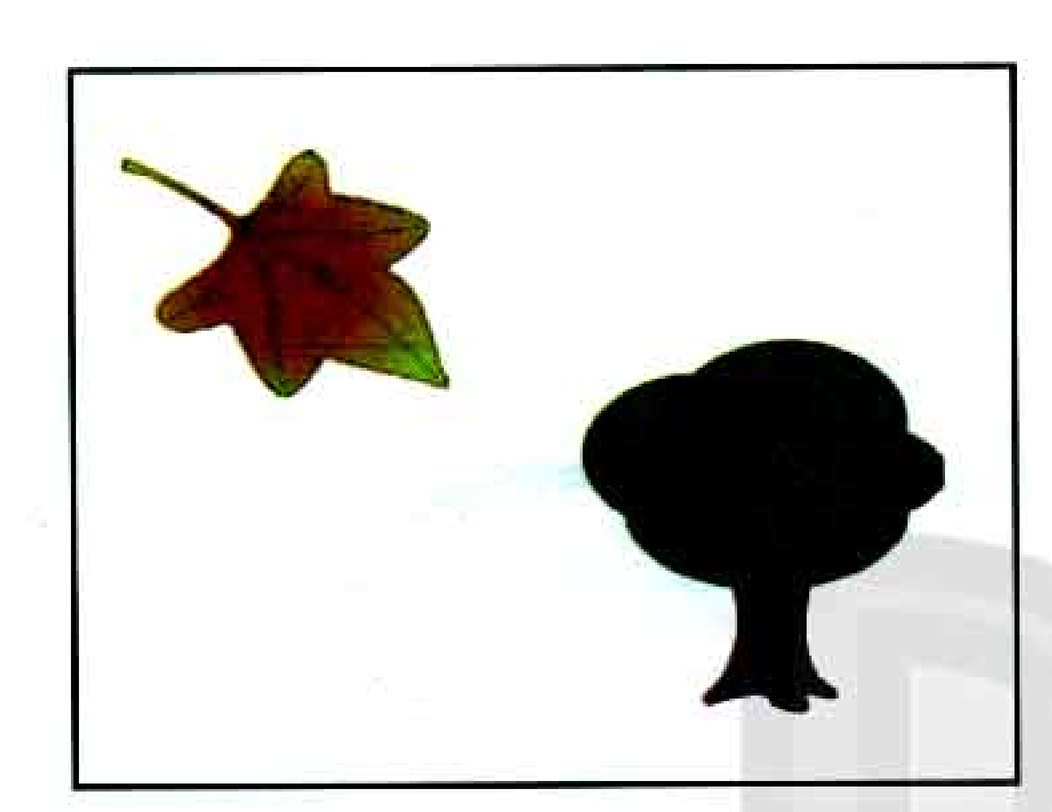




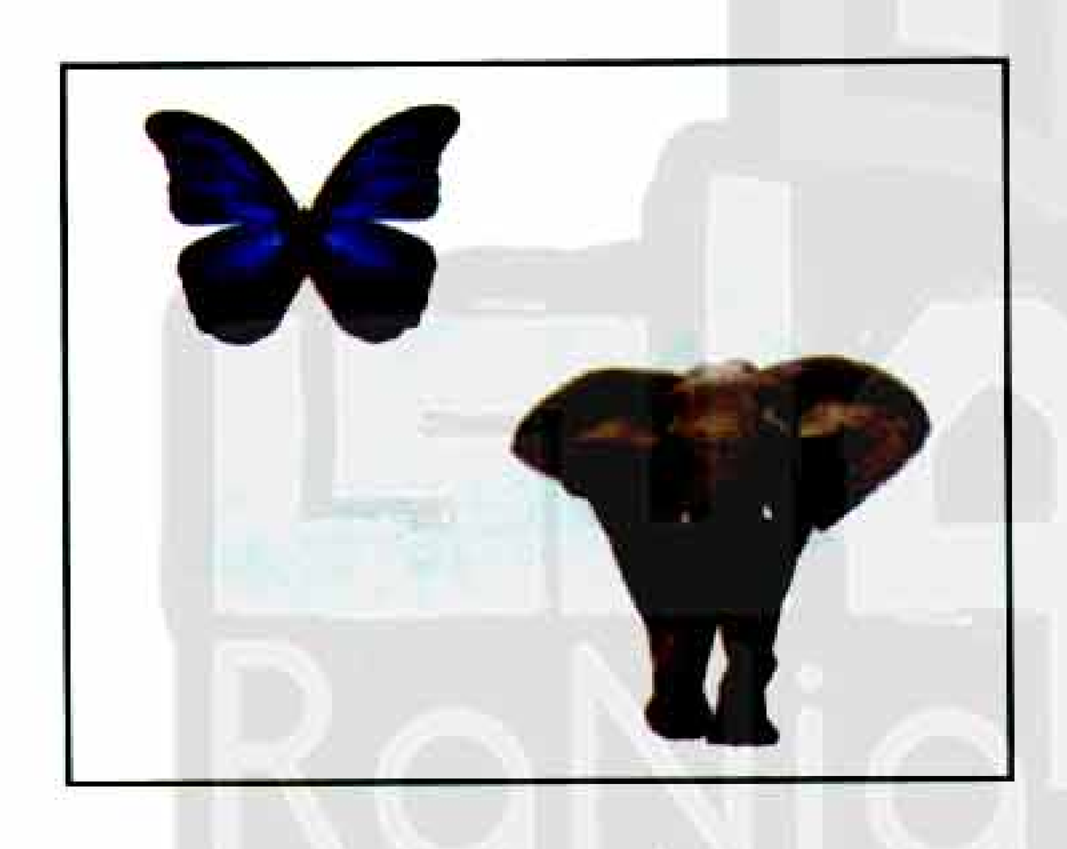


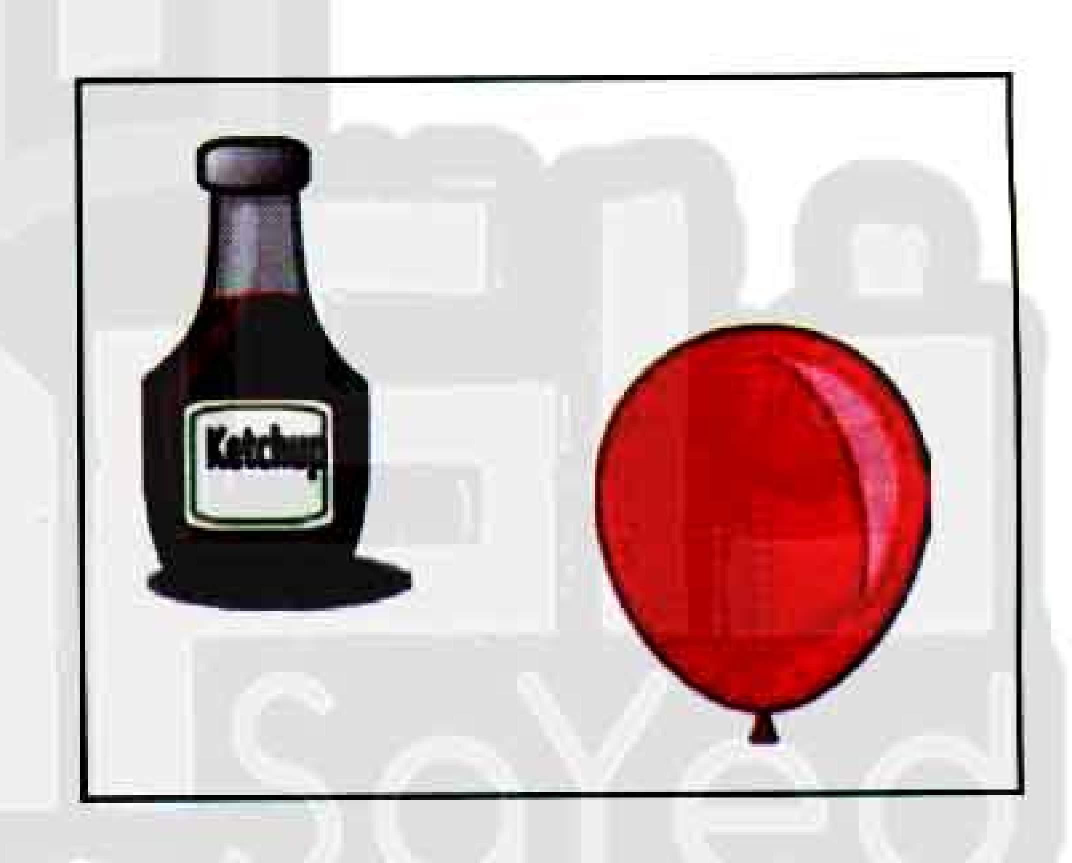


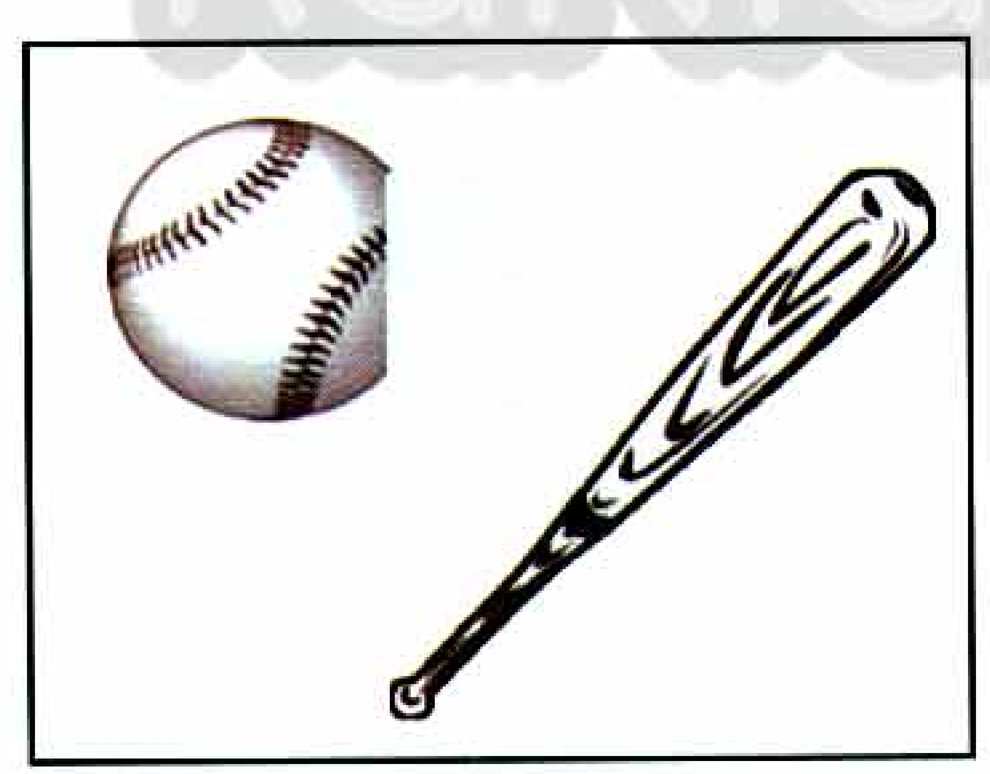
 Put (√) under the lighter object .

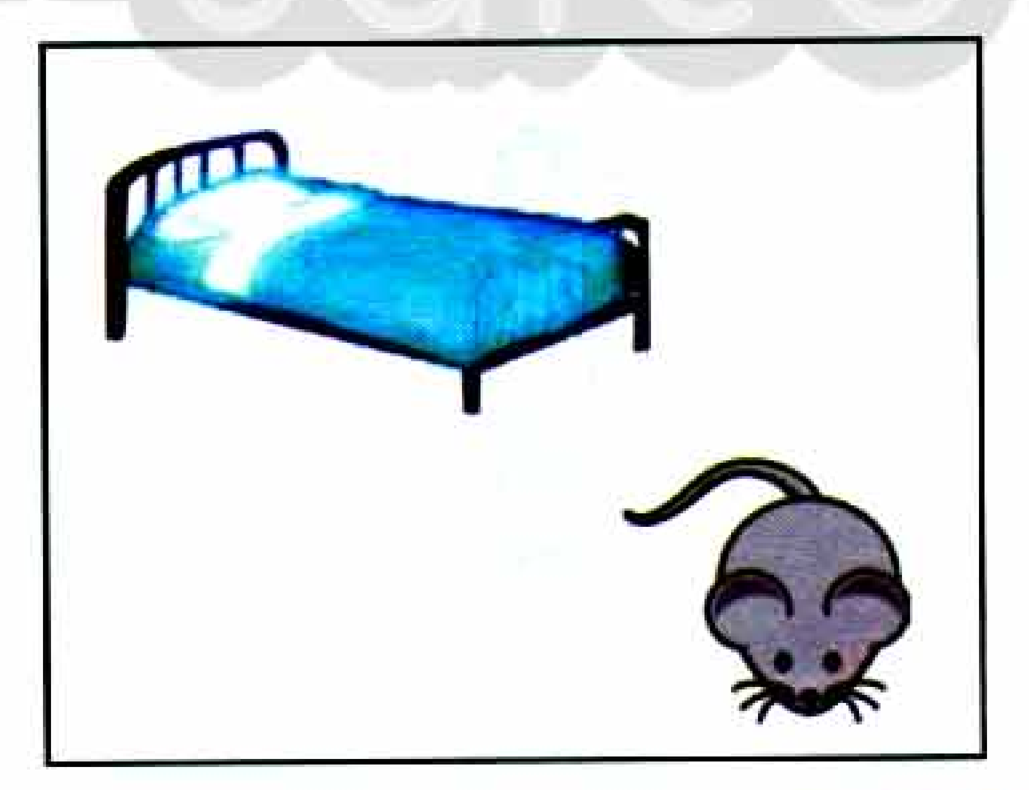












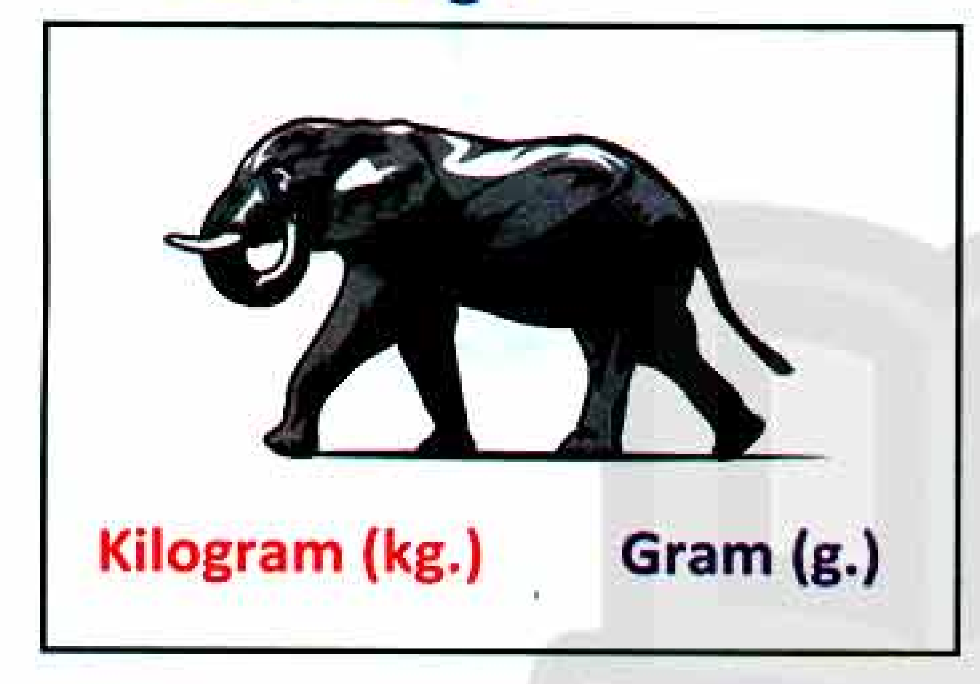




Gram (g.) or Kilogram (Kg.) ?



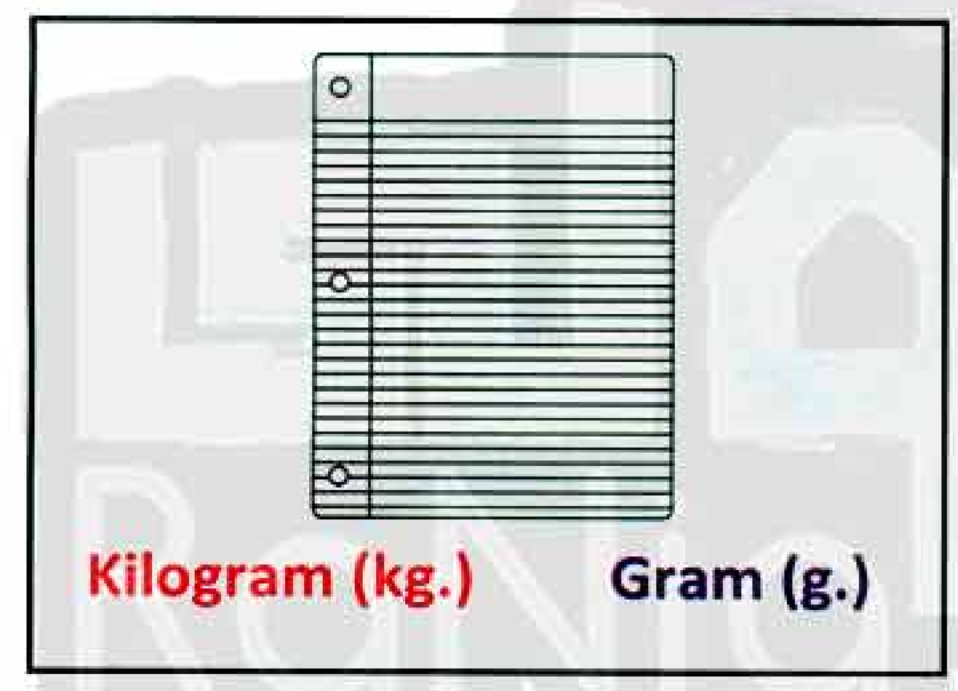
Decide which measuring unit is suitable for each of the following .



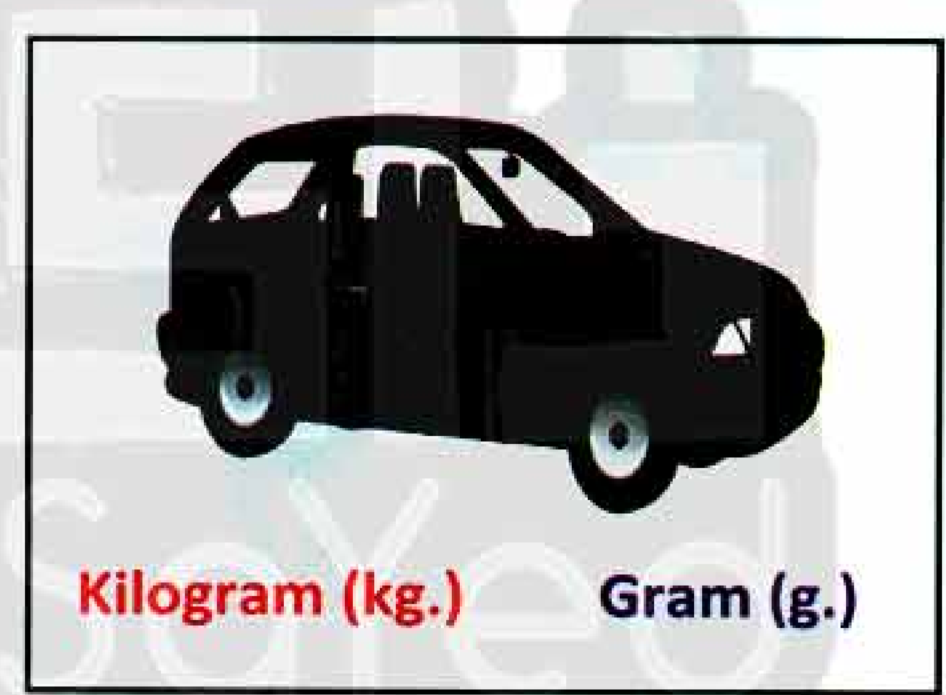
Kilogram (kg.) Gram (g.)



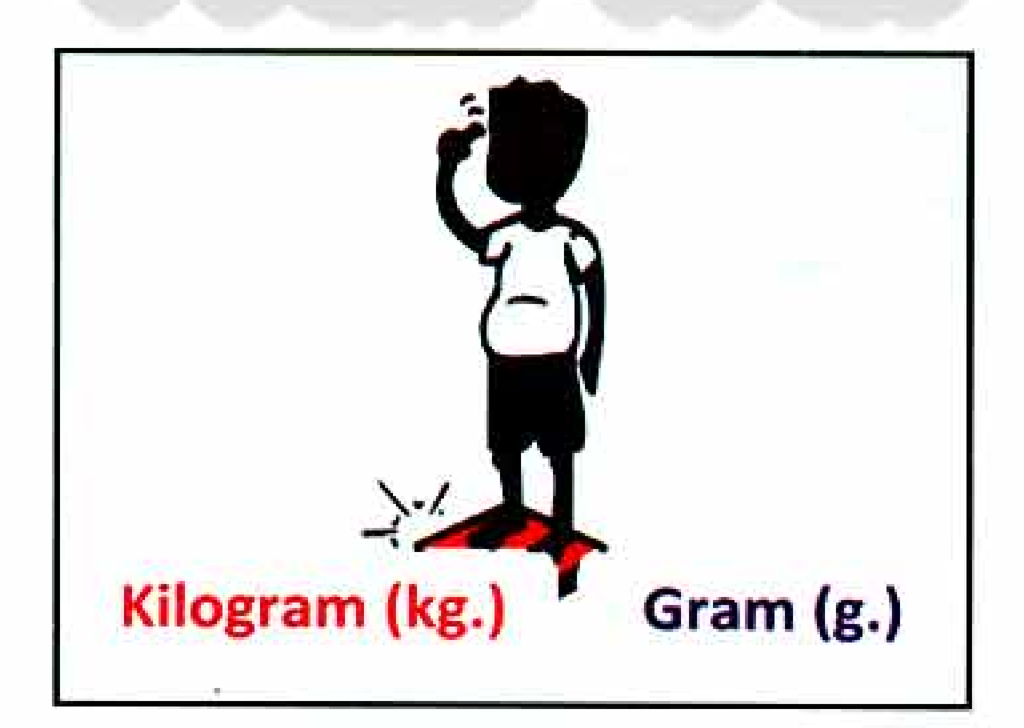
Kilogram (kg.) Gram (g.)



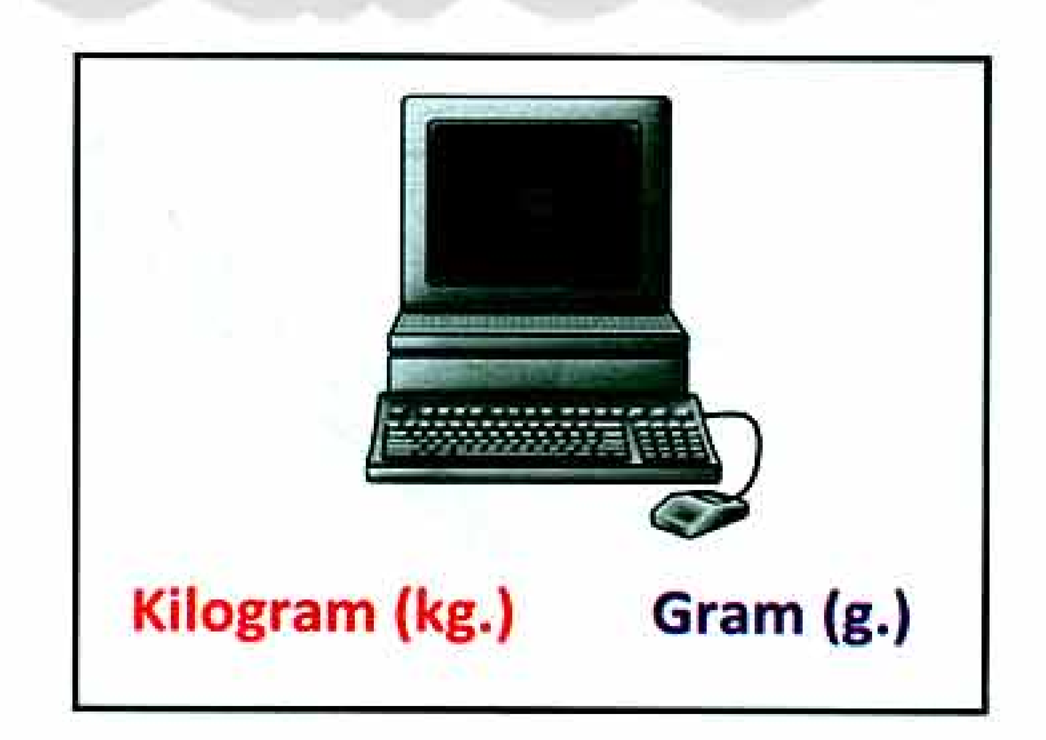
Kilogram (kg.) Gram (g.)



Kilogram (kg.) Gram (g.)



Kilogram (kg.) Gram (g.)



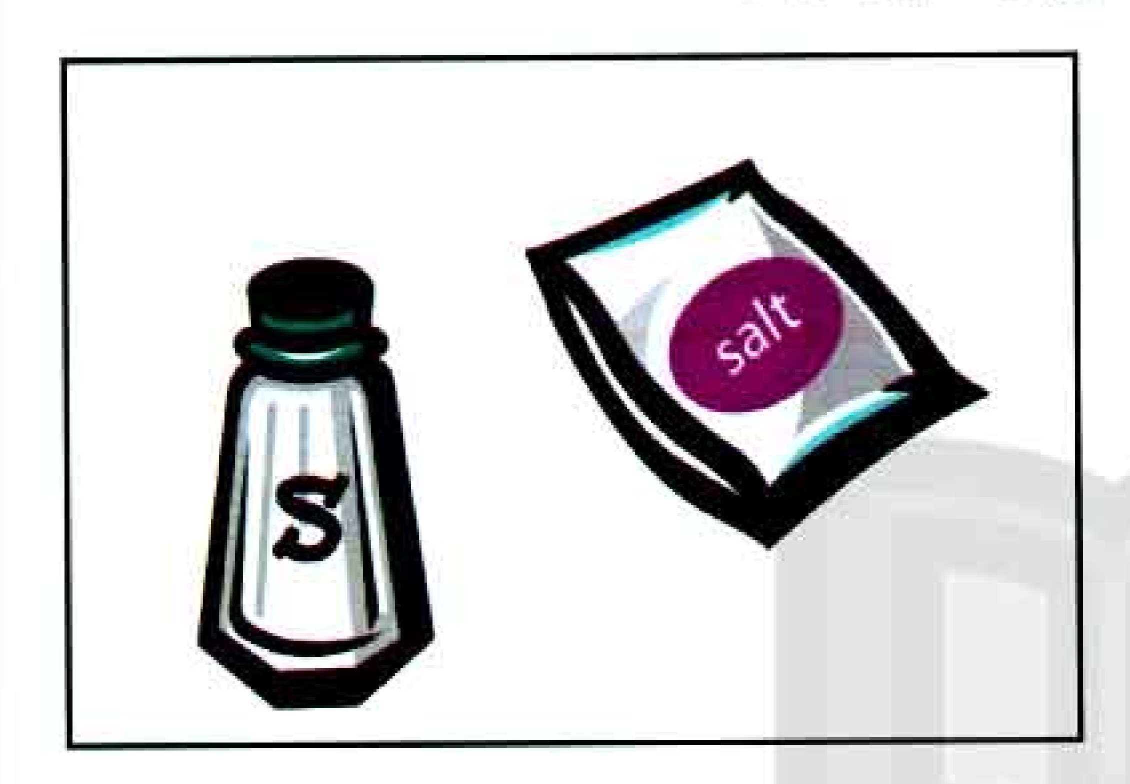
Kilogram (kg.) Gram (g.)



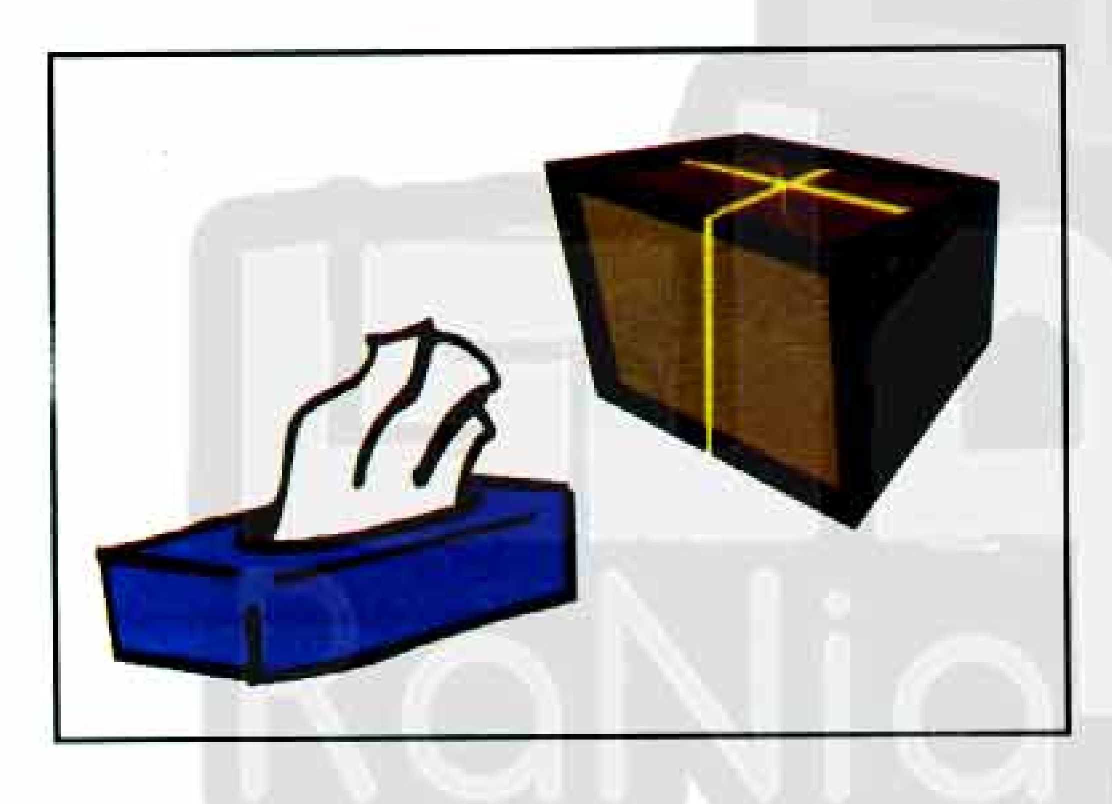




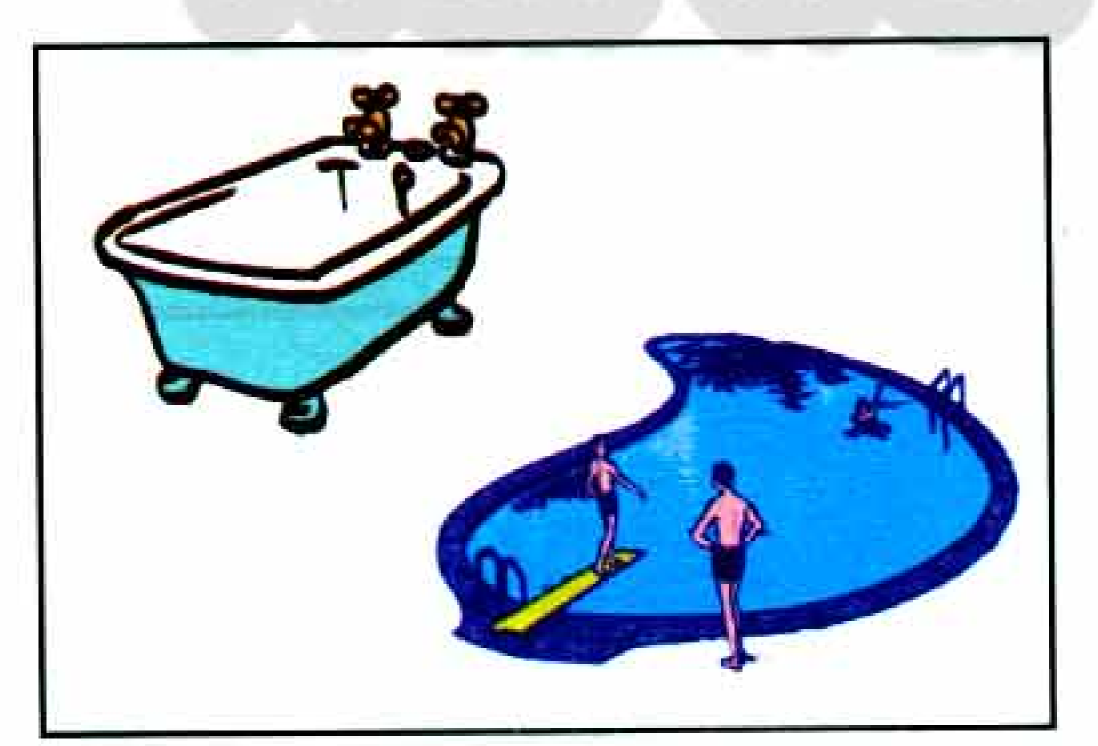
Which is heavier ?

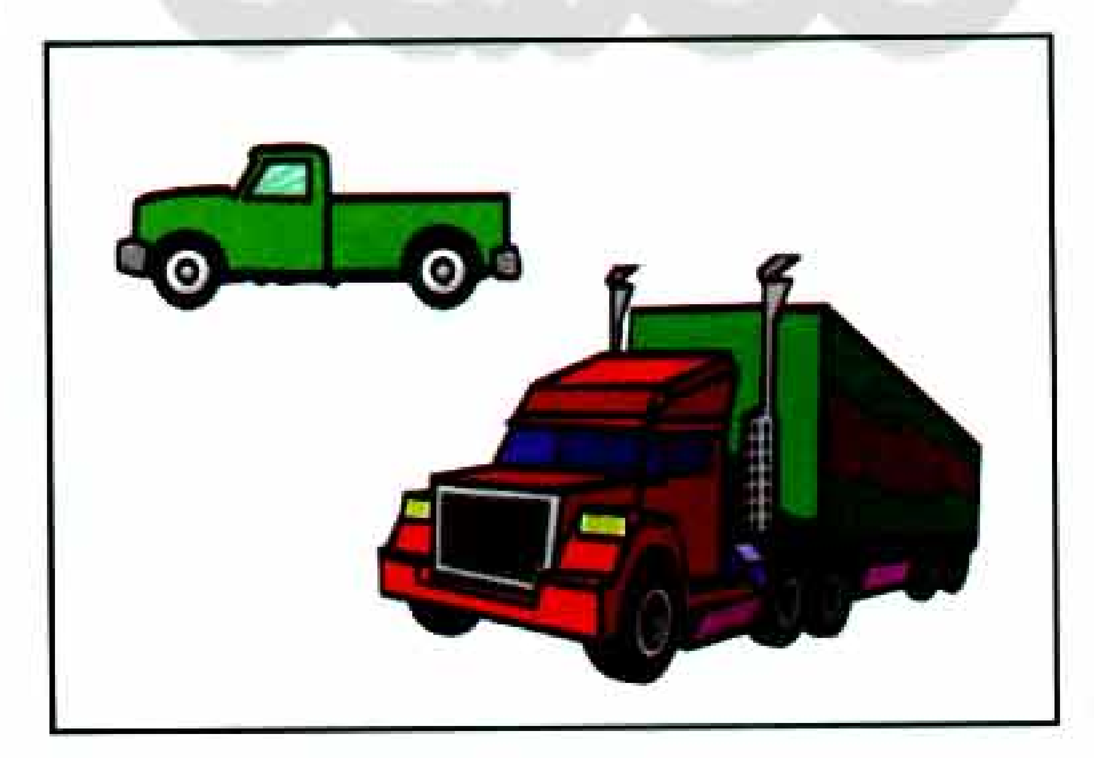
















Ordering Weight .

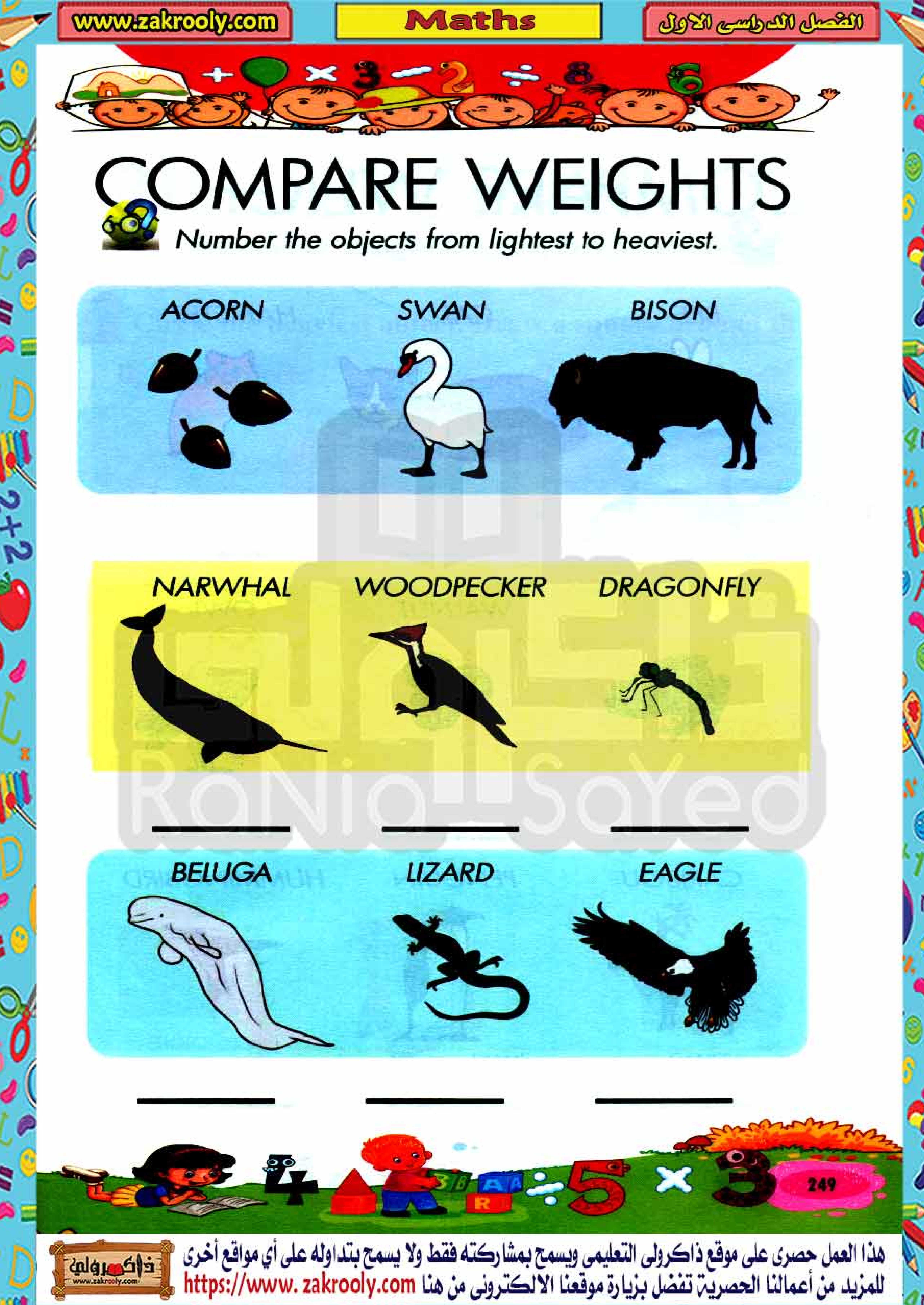
For each group , Write numbers 1-3 from lightest to heaviest .

2 3 1

___ ___ ___

___ ___ ___

___ ___ ___



COMPARE WEIGHTS

Number the objects from lightest to heaviest.

ACORN | SWAN | BISON

NARWHAL | WOODPECKER | DRAGONFLY

______ ______ ______

BELUGA | LIZARD | EAGLE

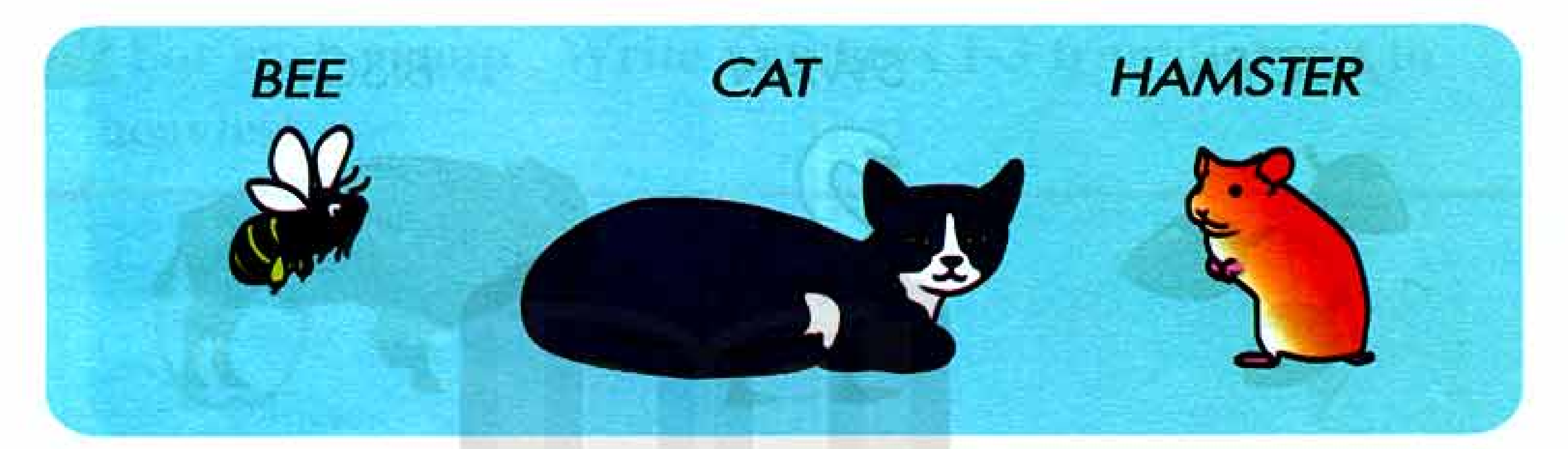
______ ______ ______



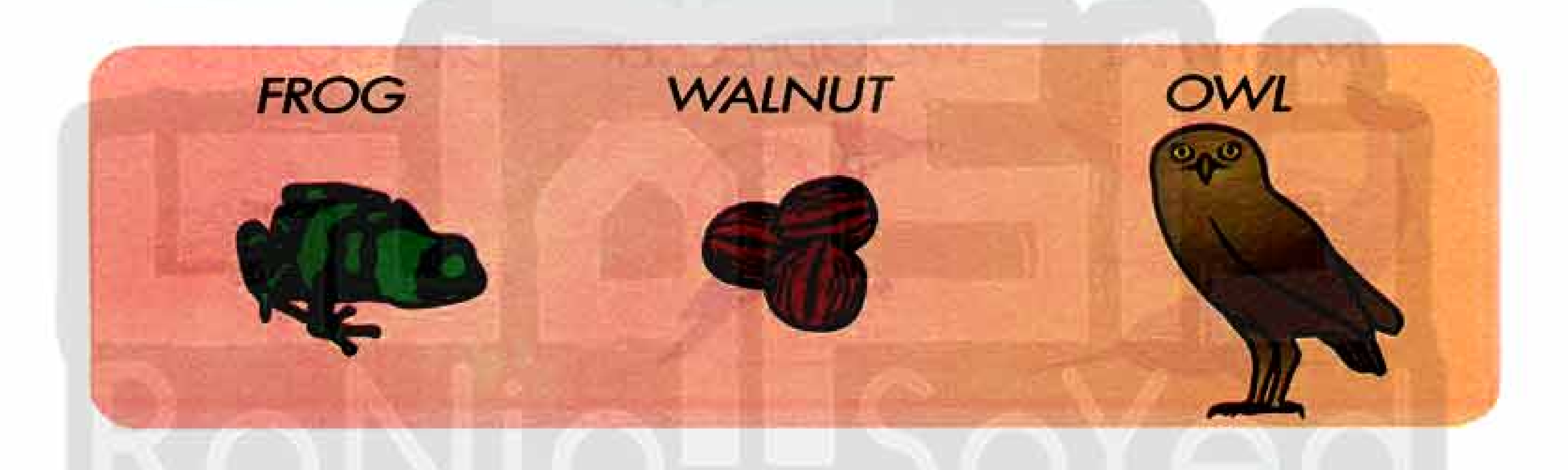


COMPARE WEIGHTS

Number the objects from lightest to heaviest.



______ ______ ______



______ ______ ______



______ ______ ______









COMPARE WEIGHTS

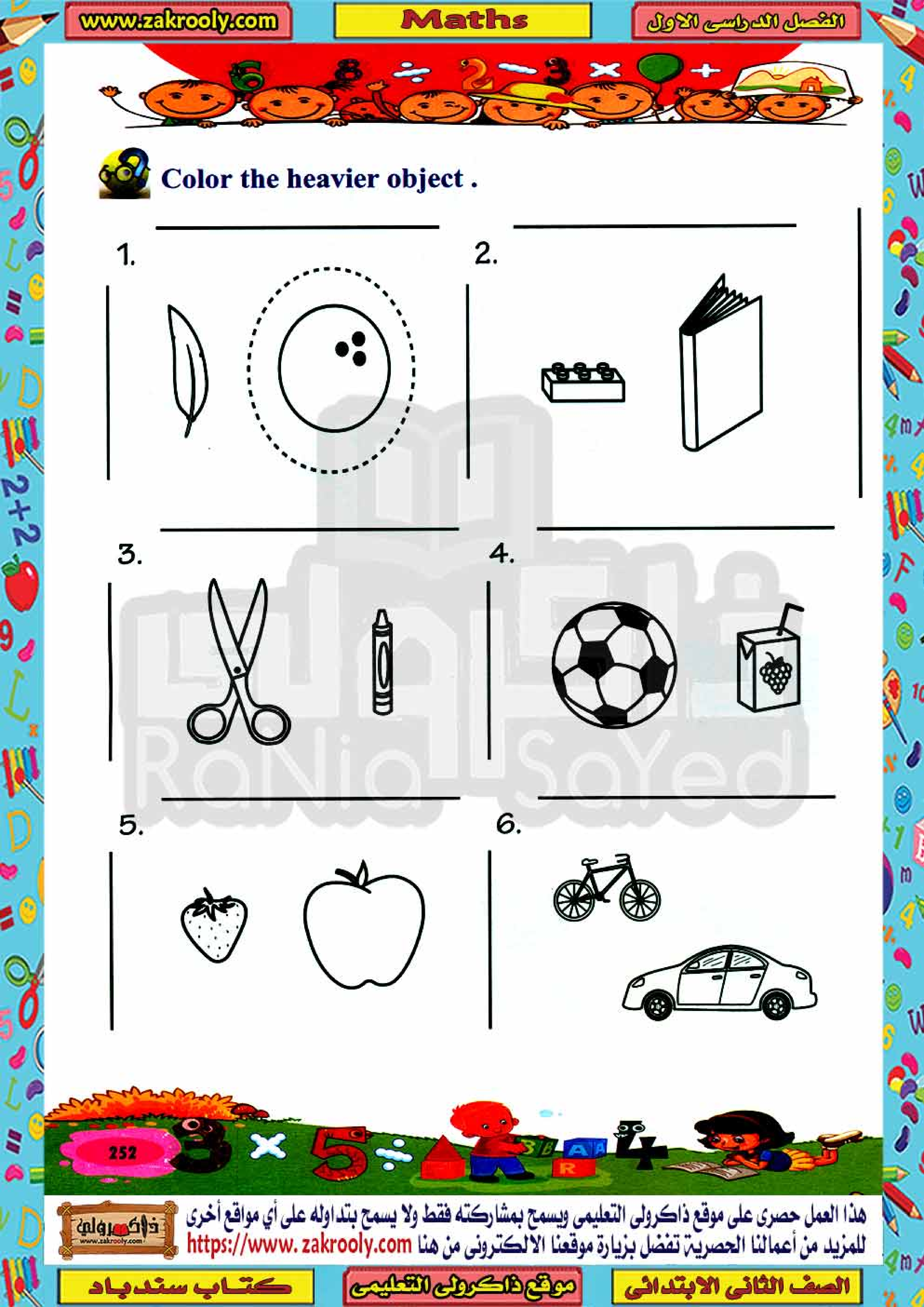
Circle the heaviest object. Draw a square around the lightest object.

BASEBALL | BASKETBALL | BOWLING BALL | GOLF BALL

BOOKCASE | BOOK | PAPER | NOTEPAD

PHOTO | FRAME | CAMERA





Color the heavier object .

1.

2.

3.

4.

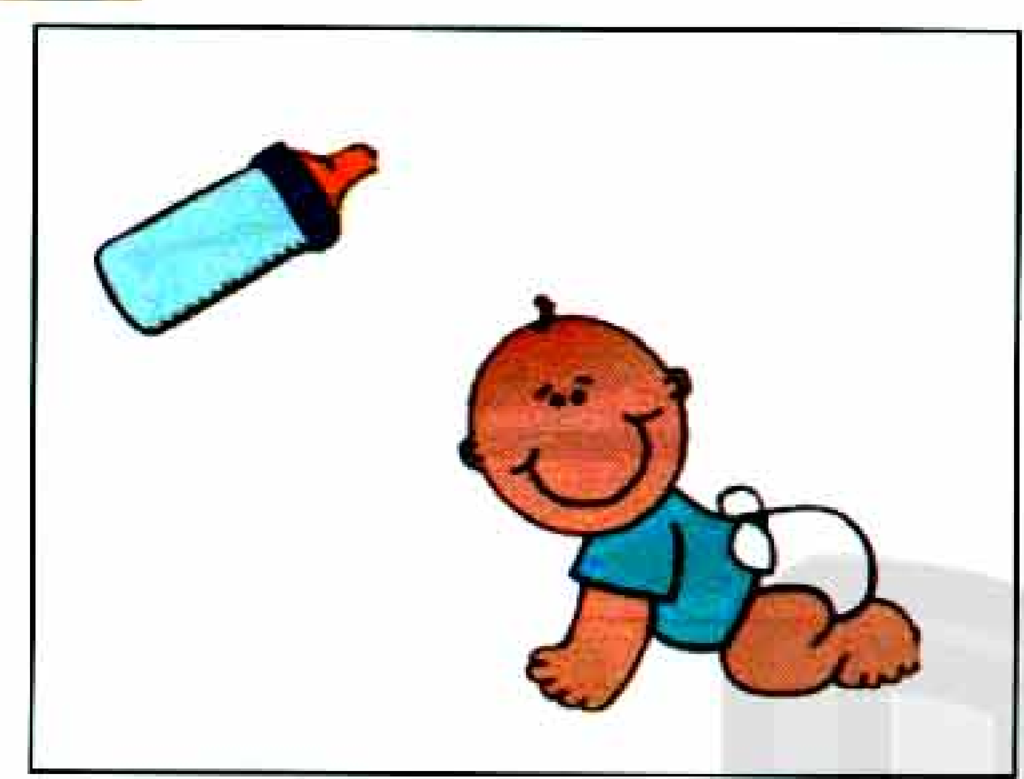
5.

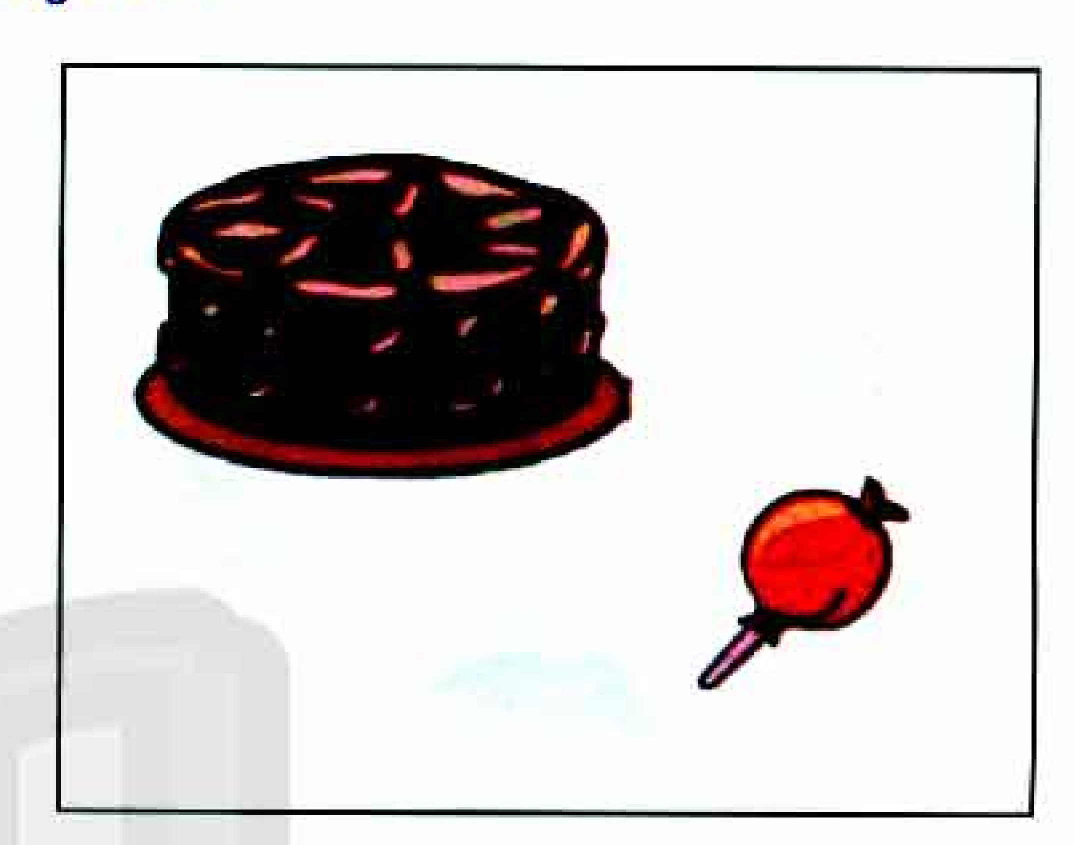
6.

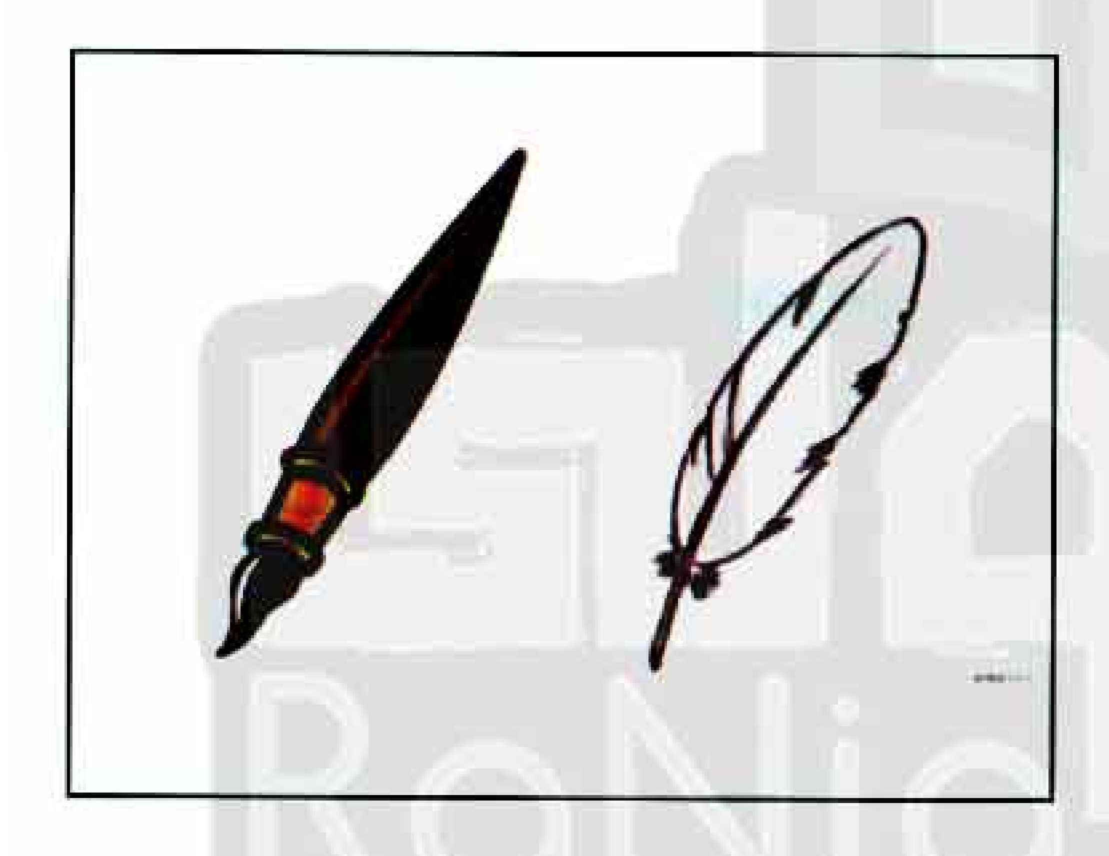


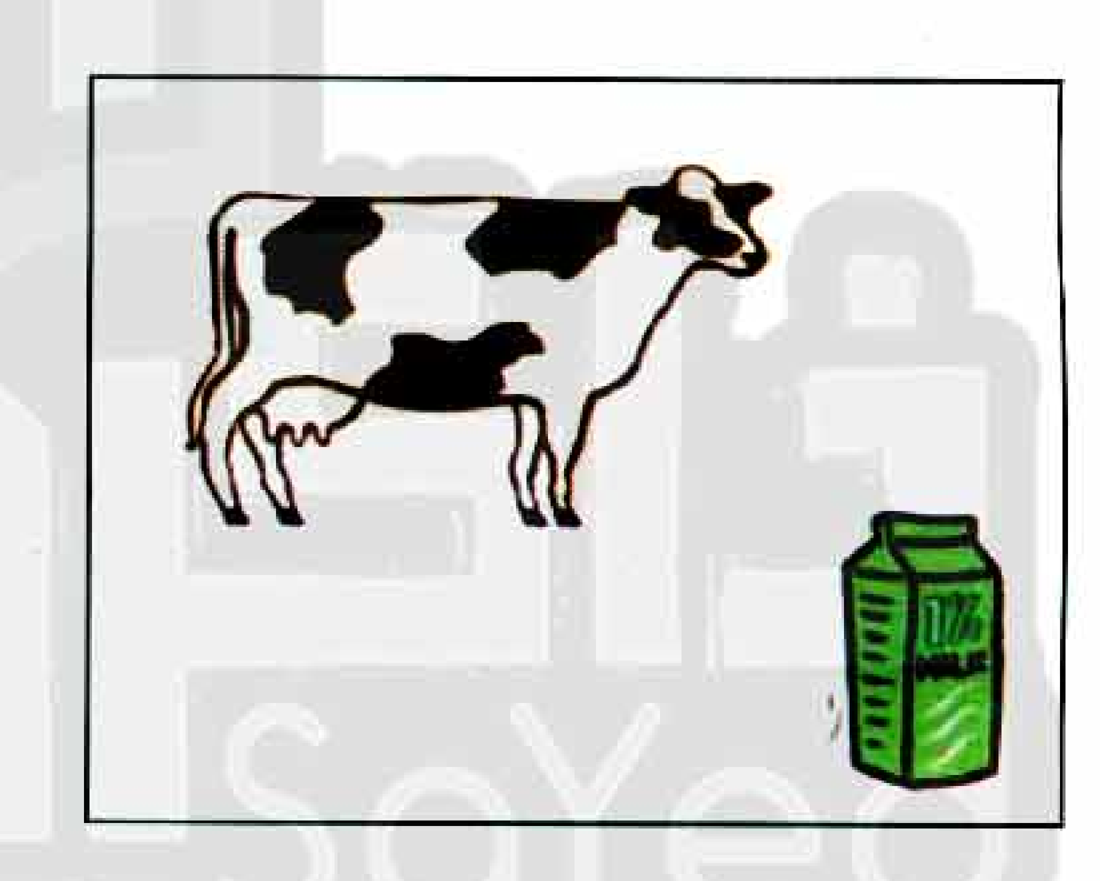


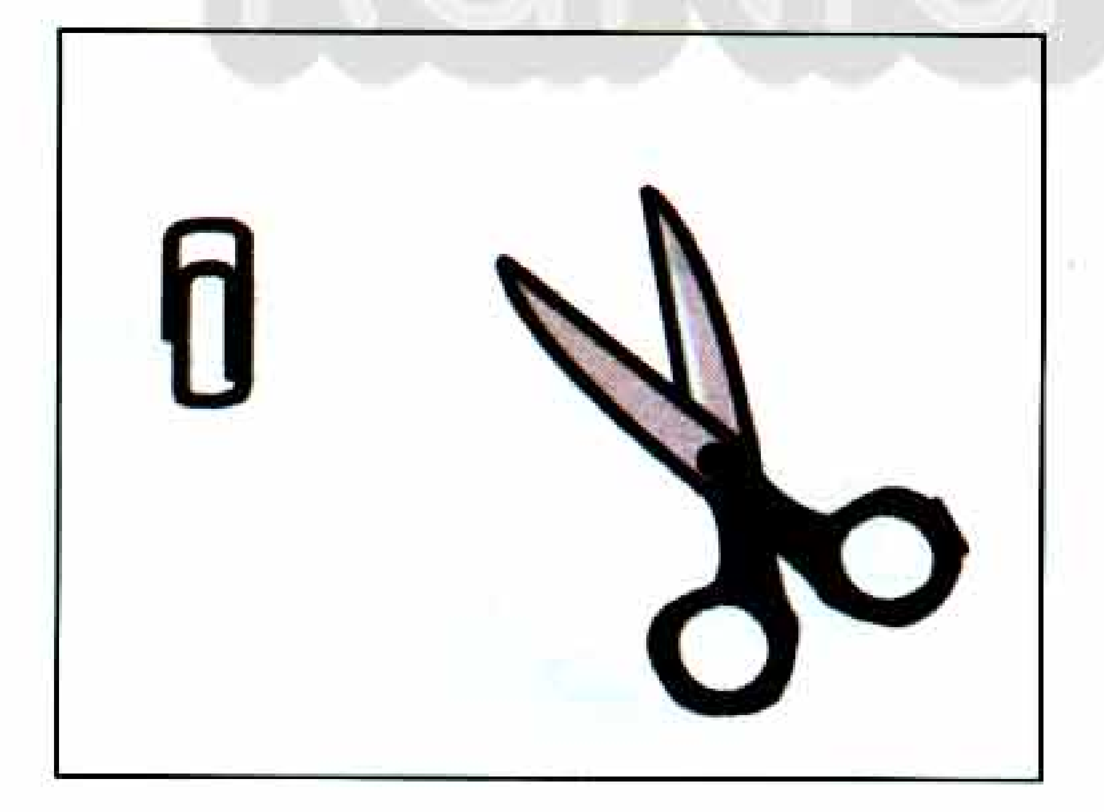
Put (√) under the lighter object .

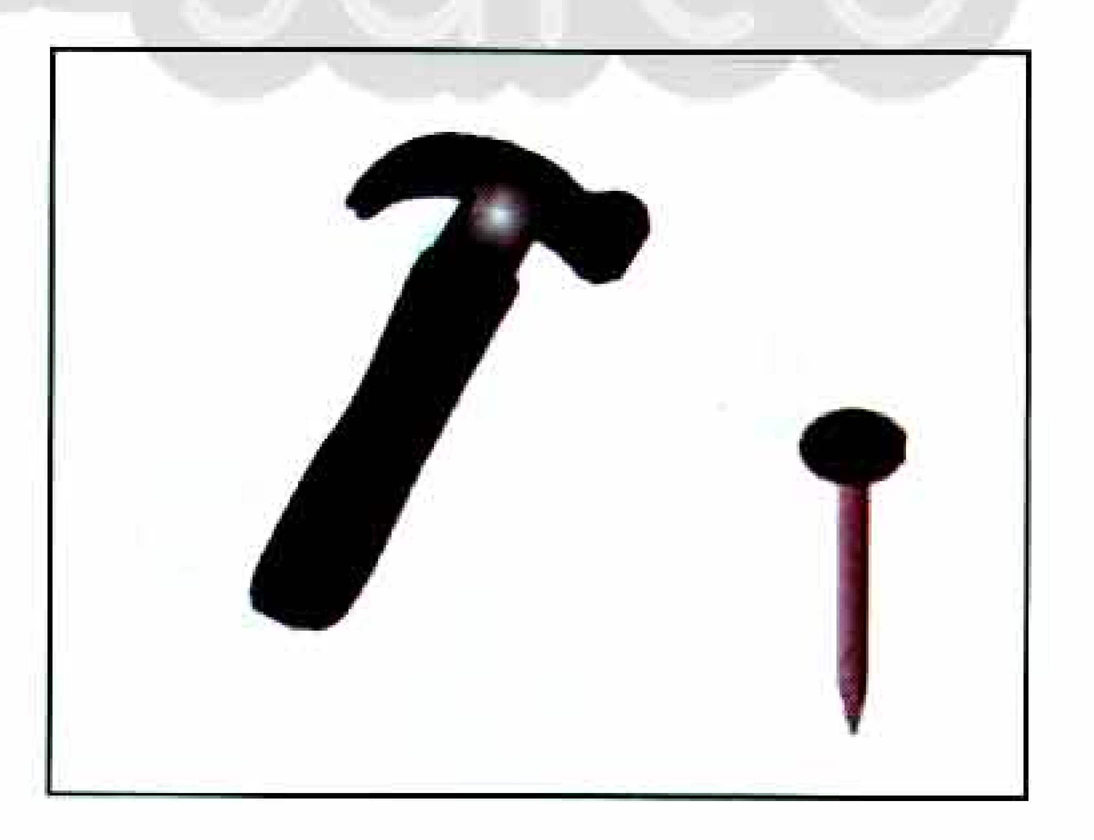








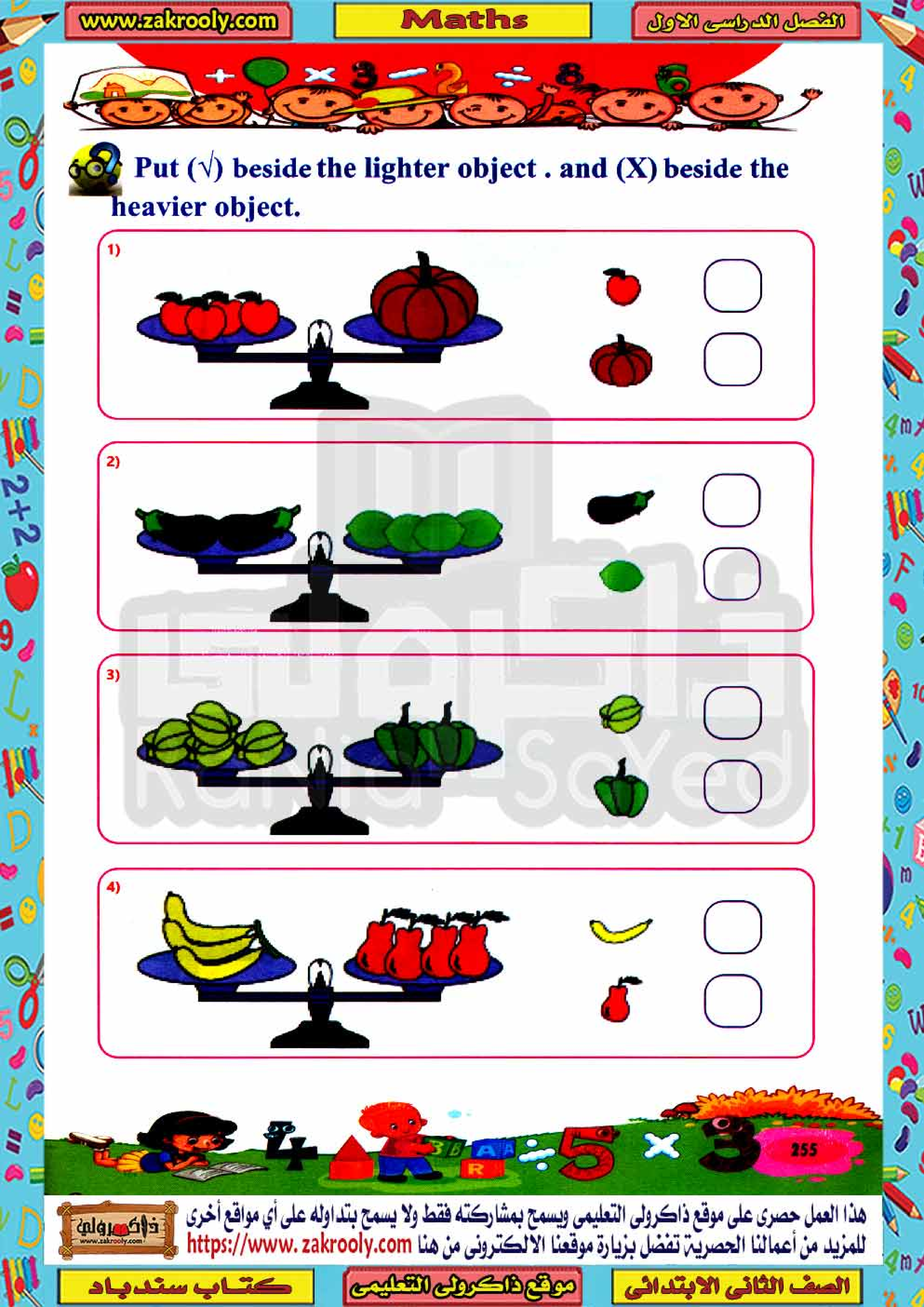








Put (√) under the lighter object .



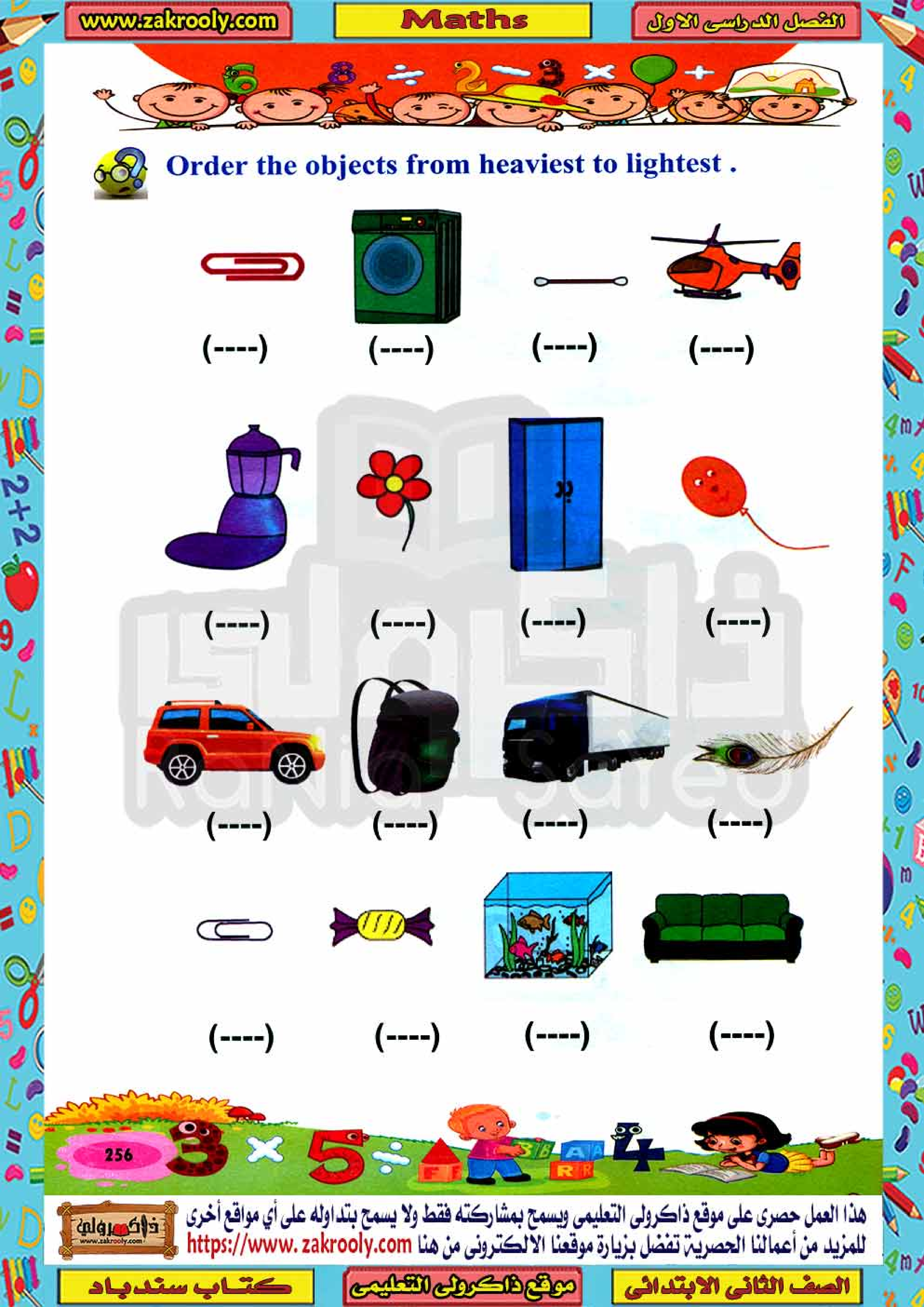
Put (√) beside the lighter object . and (X) beside the heavier object.

1)

2)

3)

4)



Order the objects from heaviest to lightest .

(----) (----) (----) (----)

(----) (----) (----) (----)

(----) (----) (----) (----)

(----) (----) (----) (----)



Order the objects from heaviest to lightest .



Order the objects from heaviest to lightest .

_______ _______ _______ _______

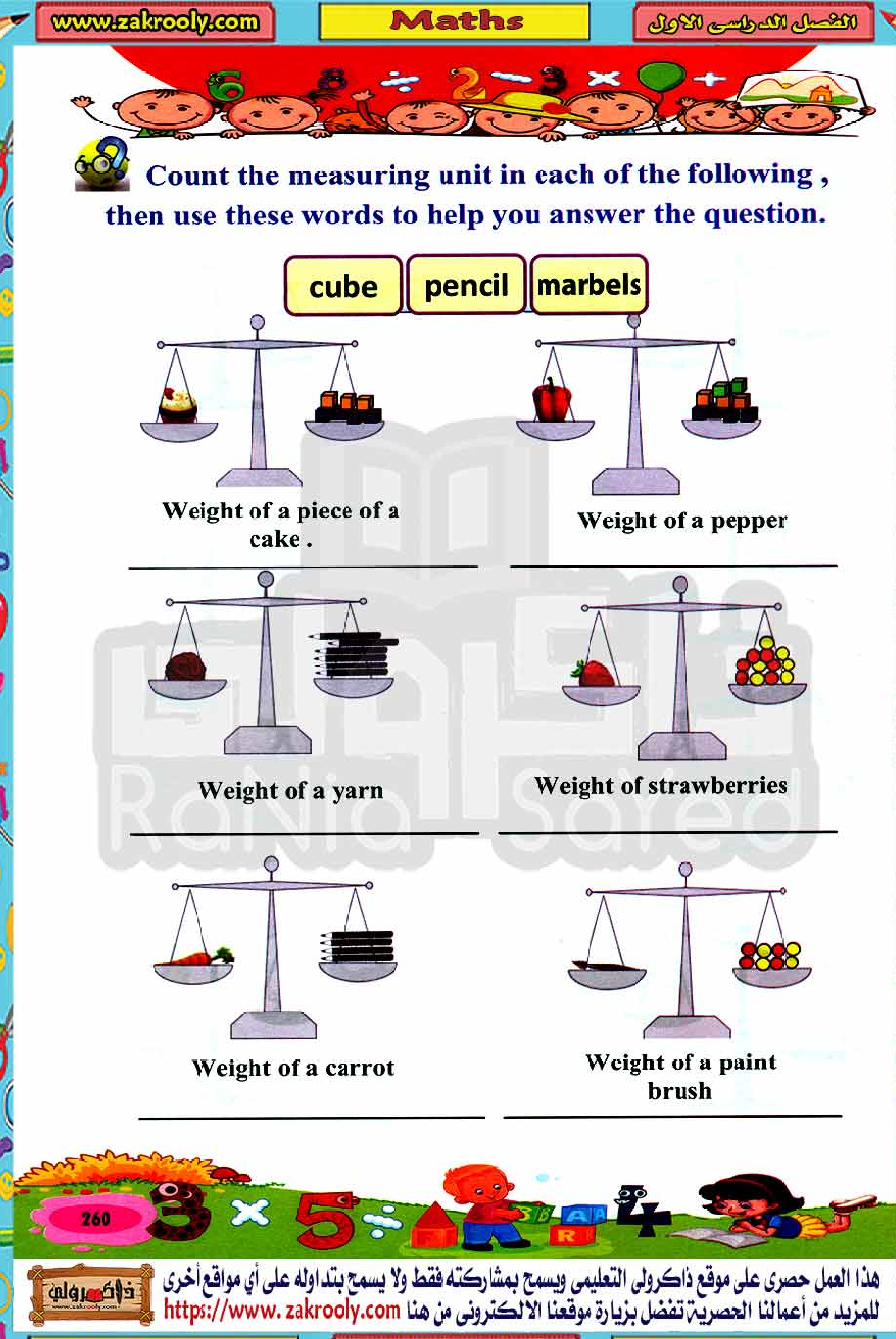
_______ _______ _______ _______

_______ _______ _______ _______

_______ _______ _______ _______



Circle the heavier .



Count the measuring unit in each of the following , then use these words to help you answer the question.

cube | pencil | marbels

Weight of a piece of a cake .

____

Weight of a pepper

____

Weight of a yarn

____

Weight of strawberries

____

Weight of a carrot

____

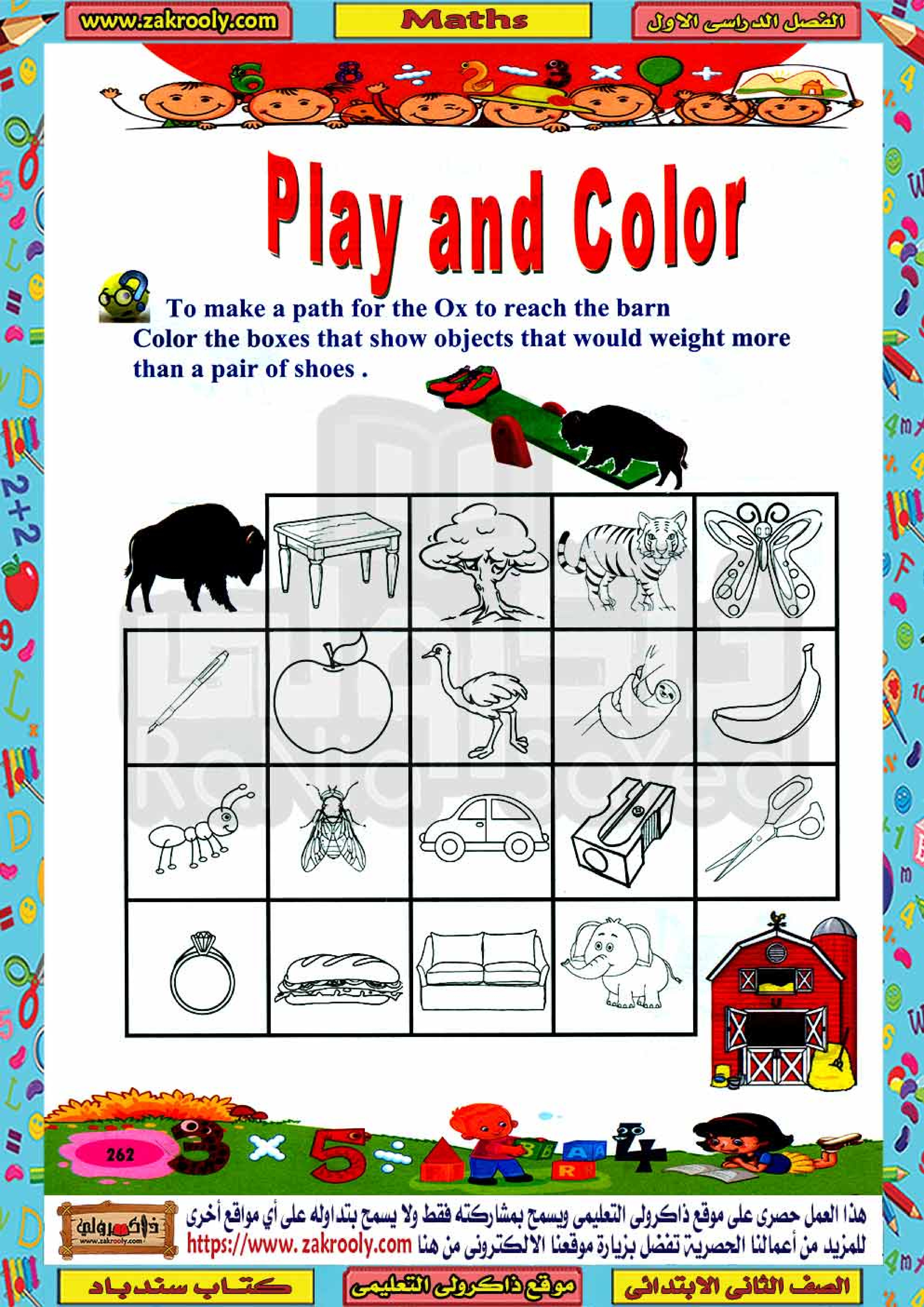
Weight of a paint brush

____



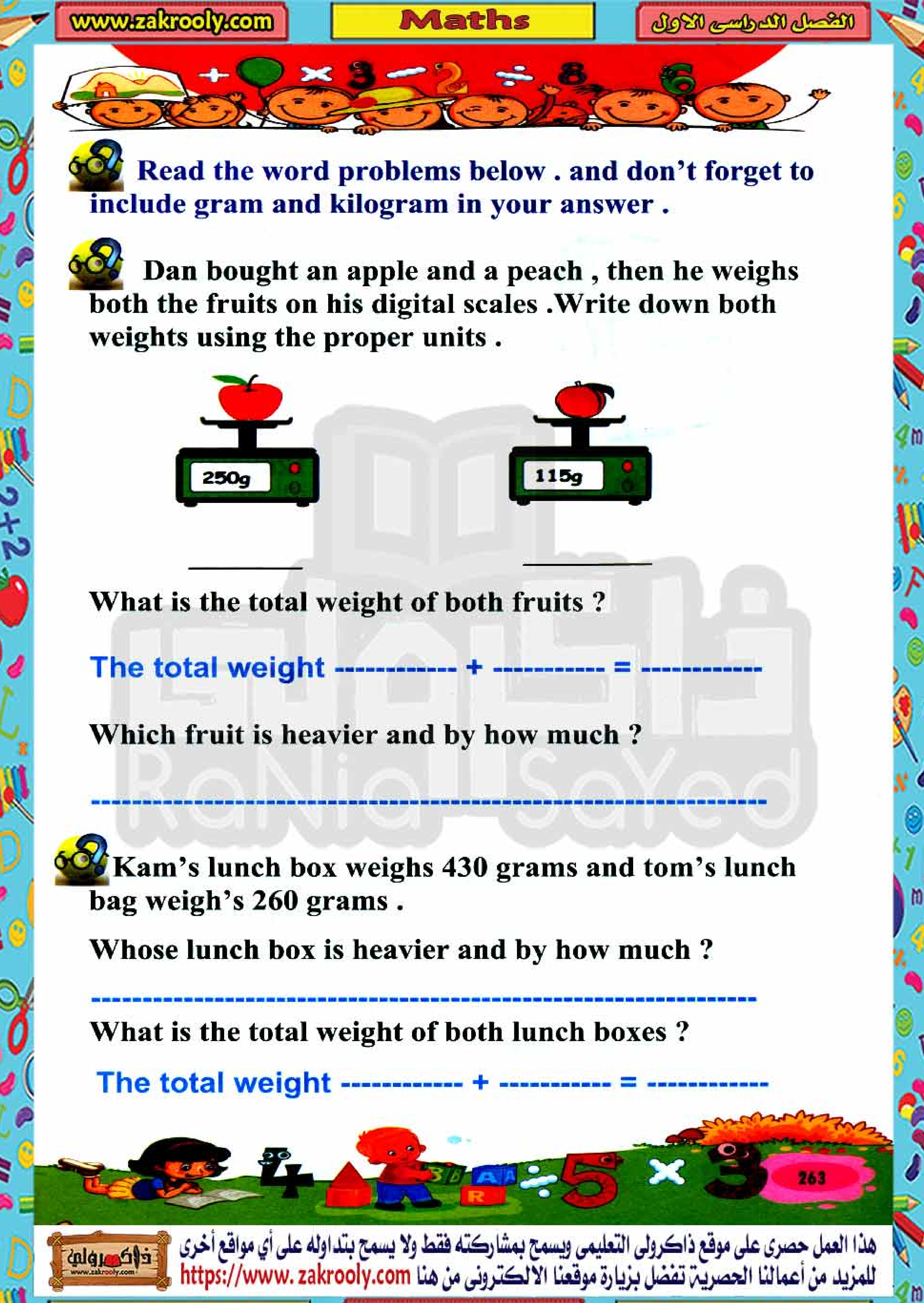
Decide which measuring unit is suitable for measuring each creature. put a circle around your answer .

Kilogram \ gram	Kilogram \ gram
Gram \ Kilogram	Kilogram \ gram
Kilogram \ gram	Gram \ Kilogram
Kilogram \ gram	Gram \ Kilogram



Play and Color

To make a path for the Ox to reach the barn
Color the boxes that show objects that would weight more than a pair of shoes .



Read the word problems below . and don't forget to include gram and kilogram in your answer .

Dan bought an apple and a peach , then he weighs both the fruits on his digital scales .Write down both weights using the proper units .

________ ________

What is the total weight of both fruits ?

The total weight ----------- + ---------- = -----------

Which fruit is heavier and by how much ?

Kam's lunch box weighs 430 grams and tom's lunch bag weigh's 260 grams .

Whose lunch box is heavier and by how much ?

What is the total weight of both lunch boxes ?

The total weight ----------- + ---------- = -----------



Look at the following pictures .





7Kg

12Kg

By how mauch coinbag is heavier then the backpack ?

What is the total weight of both bags ?

The total weight ----------- + ---------- = -----------

Kitty bought rice and potato from the market .
If the weight of the rice is 30 kg and the total weight of what she bought is 27 kg . what is the weight of the potato ?

The weight of potato ----------- - ---------- = -----------





A glue stick weighs 57 grams and a stapler weighs 126 grams heavier than the glue stick. What is the weight of a stapler?

The weight of stapler ----------- + ---------- = -----------

The weight of a bat is 995 grams. The weight of a ball is 680 grams less than the bat. What is the weight of the ball?

The weight of ball ----------- - ---------- = -----------

The weight of a chair is 10 kg. What is the weight of 3 such chairs?

The total weight -------- + ------- + ------- = -----------

A book weighs 2 kg, a bottle weighs 2 kg and a glass weighs 1 kg. What is the total weight of all the things?

The total weight -------- + ------- + ------- = -----------





Rosy bought carrots and green beans from the market.
The weight of the green beans is 260 g. what is the weight of the carrots ?

625g

The weight of carrots ------------ - ---------- = -----------

Tom weighs 46 Kg and his dad weighs 88 kg. How much heavier Tom's dad than tom ?

The weight of Tom's dad ------------ - ---------- = -------

Ahmed bought chips , fries and a sandwich . weight of all three measured to 820 g. Chips and fries weighed to 595 g. what is the weight of sandwich ?

The weight of sandwich ------------ - ---------- = -------

Jerry and Jake bought banana and oranges from the store , the weight of banana id 25 kg and the weight of oranges is 63 kg .What is the total weight of fruits ?

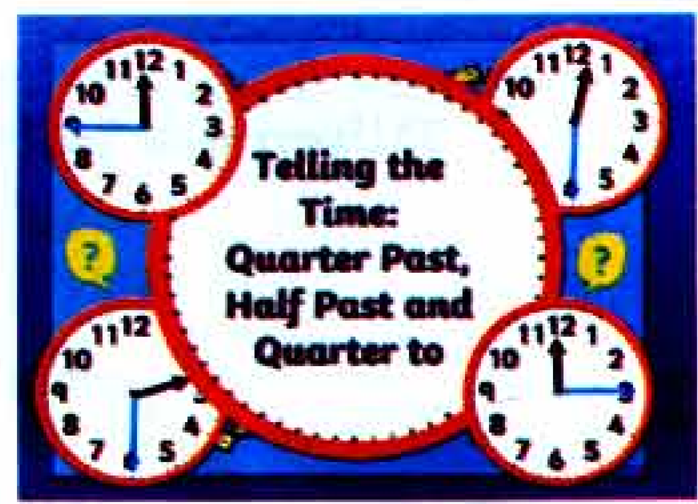
The total weight ------------ + ---------- = -----------





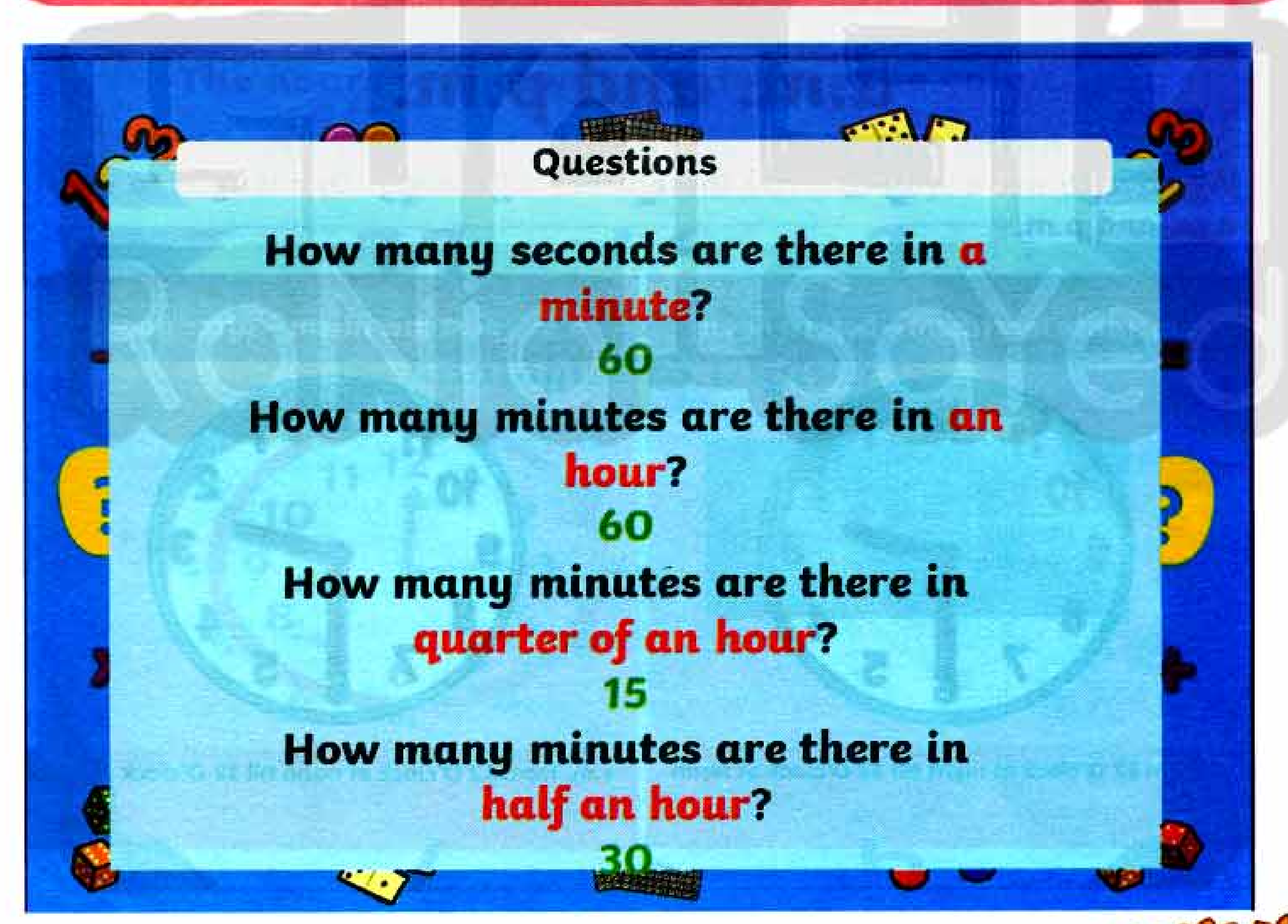


Measuring time



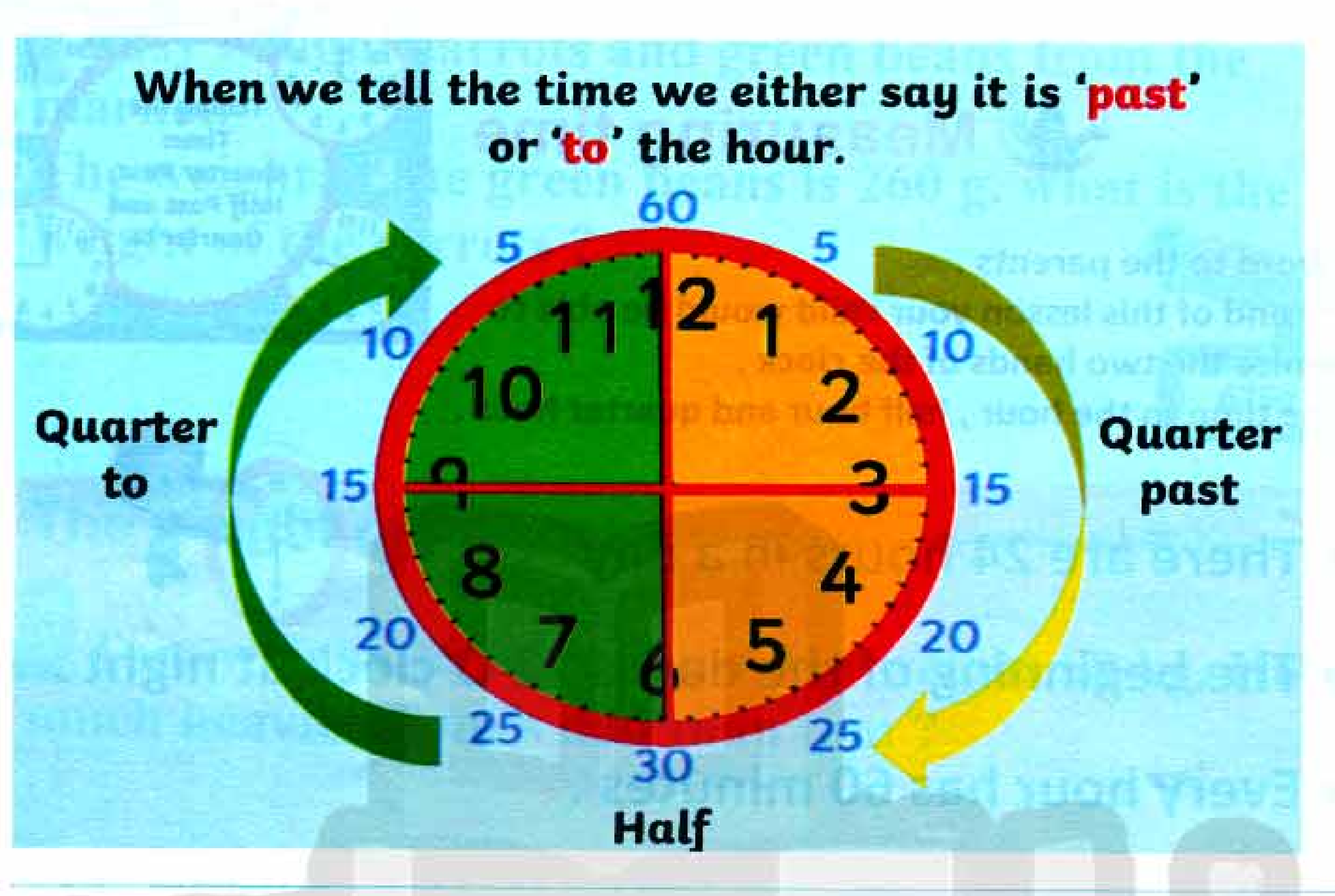
A word to the parents .
By the end of this lesson your child would be able to
Recognize the two hands of the clock .
Tell the time to the hour , half hour and quarter hour .

- There are 24 hours in a day
- The beginning of the day is 12 O'clock at night .
- Every hour has 60 minutes .









a.m. and p.m.

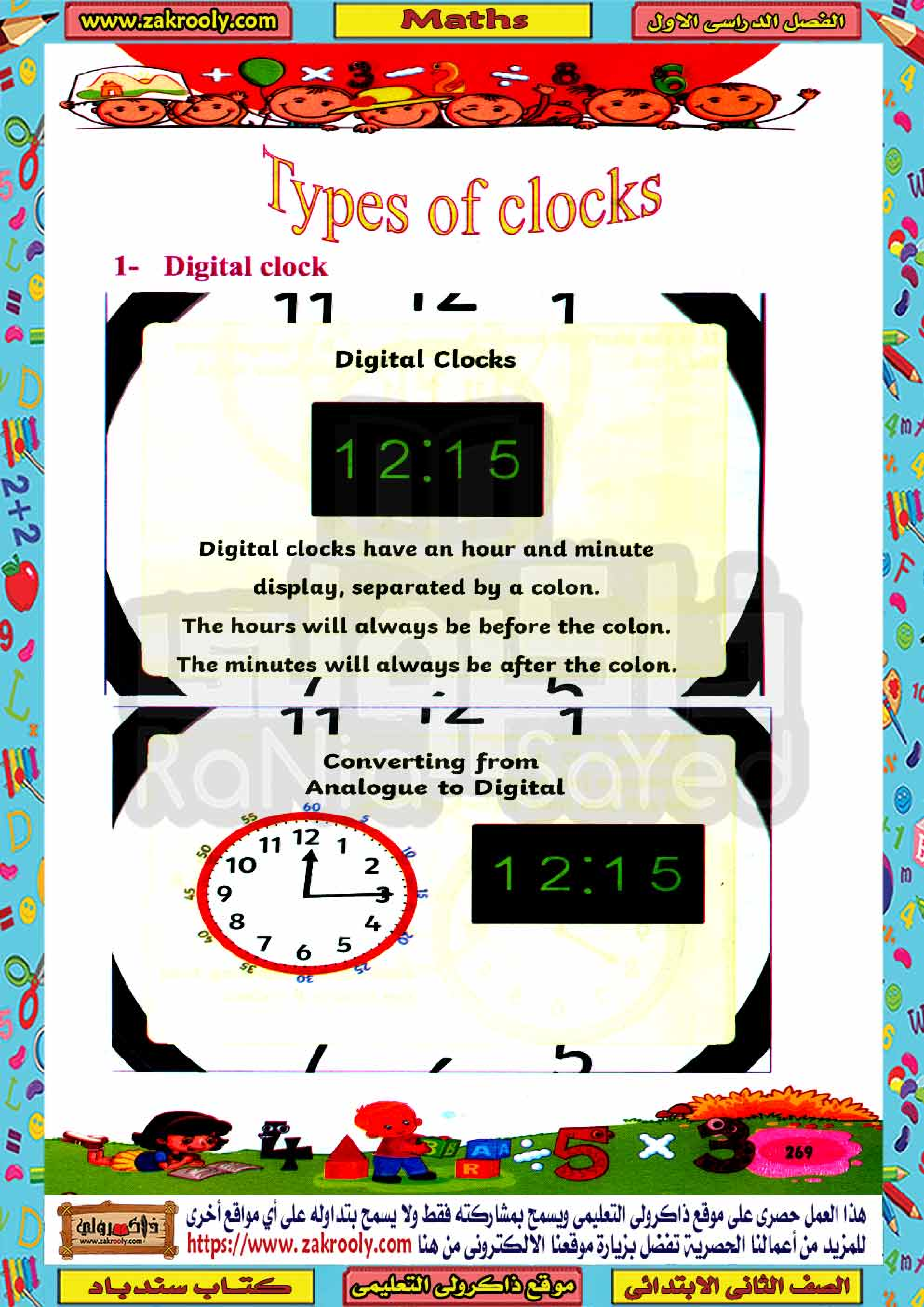
We have to use a way to write these times differently. One way is to use a.m. and p.m.



a.m. (ante meridiem - before noon)	p.m. (post meridiem - after noon)
	
a.m. from 12 O'clock at night till 12 O'clock at noon	a.m. from 12 O'clock at noon till 12 O'clock at night







Types of clocks

1- Digital clock



2- Analogue Clock

Hours and Minutes

This is the hour hand.

It is the shortest hand on the clock.

This is the minute hand.

It is longer than the hour hand.



Hours and Minutes

When the minute hand is pointing to 12, it is showing a full hour.
We call this time 'o'clock'.

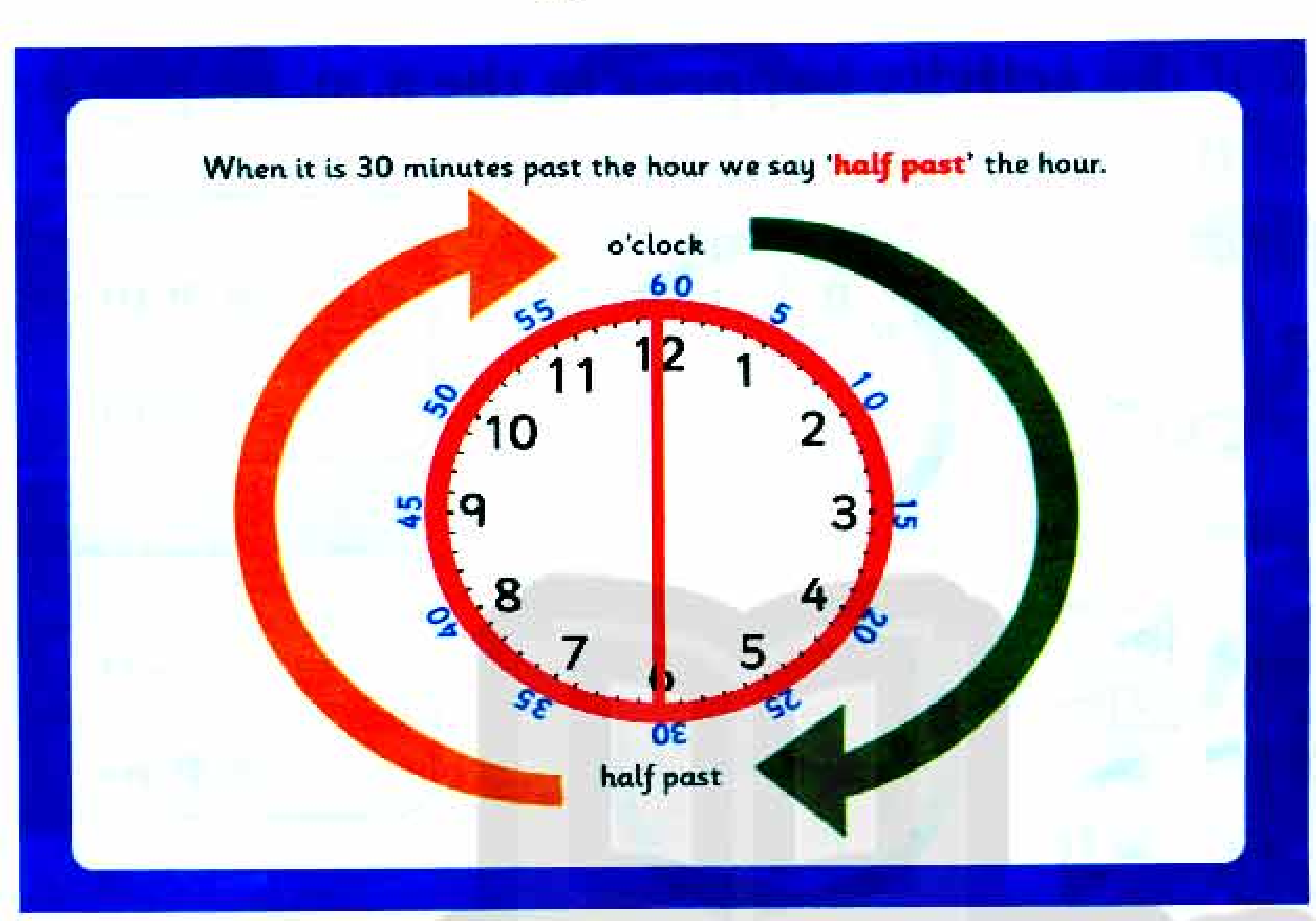


On this clock, the hour hand is pointing at the 8 and the minute hand is pointing to the 12.

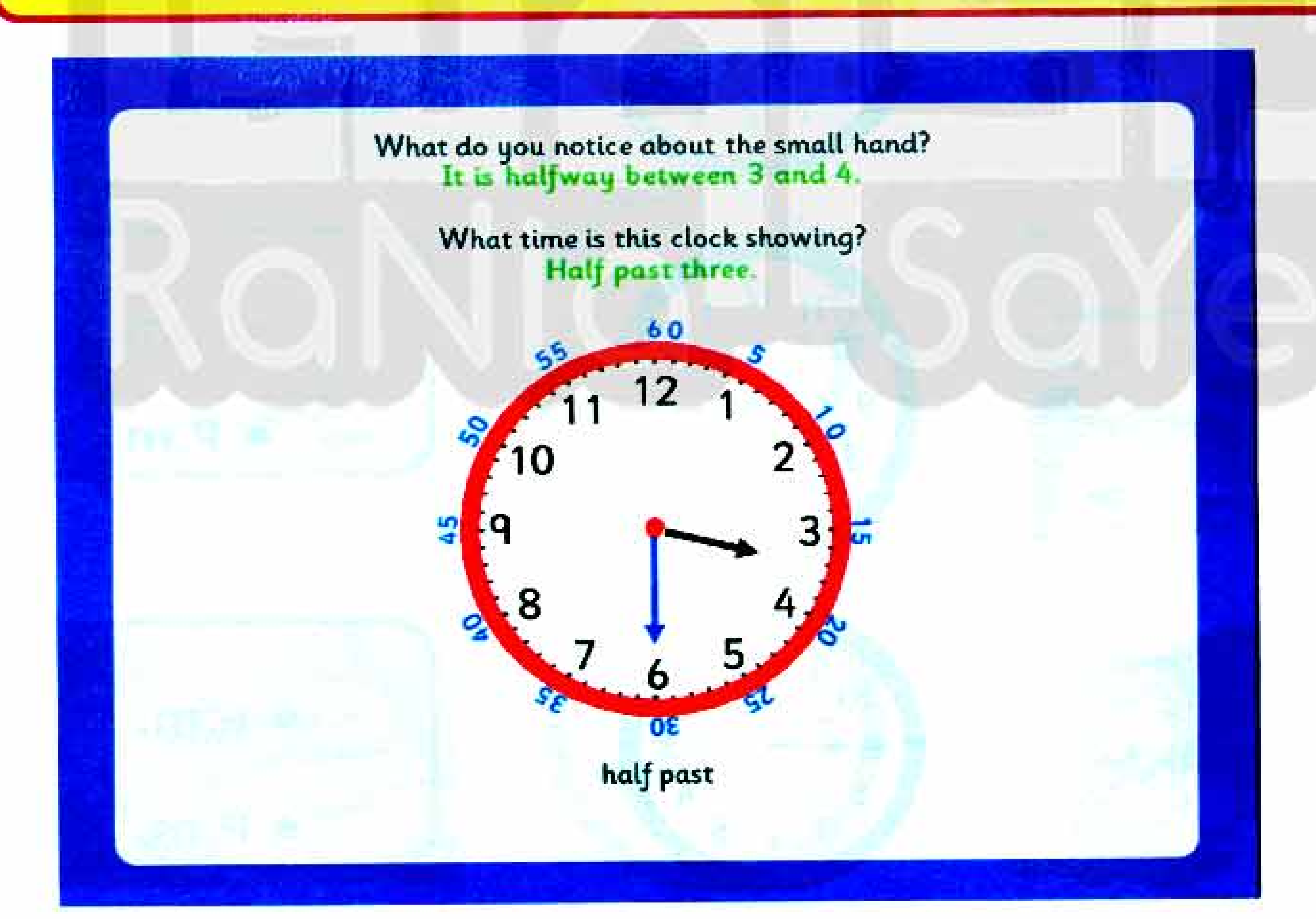
This clock is showing that the time is 8 o'clock.







Numbers on the clock is from 1 to 12 "represents the hours" .
Between any 2 numbers , there are 5 small parts that represent the minutes





Decide if the activity happens in the a.m. or p.m.
Circle your answer.

- a.m.
- P.m.

- a.m.
- P.m.

- a.m.
- P.m.

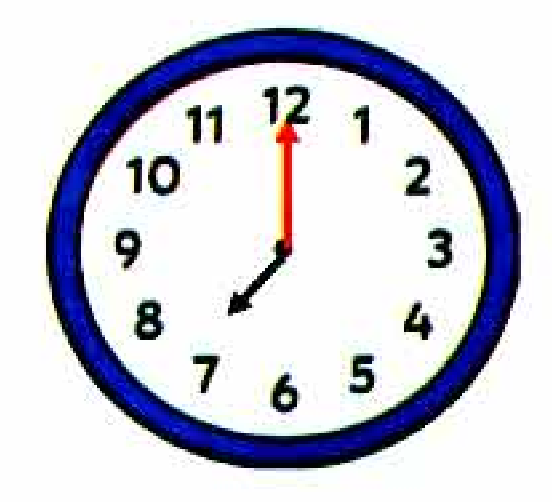
- a.m.
- P.m.

- a.m.
- P.m.









- a.m.
- P.m.



- a.m.
- P.m.



- a.m.
- P.m.



- a.m.
- P.m.



- a.m.
- P.m.







RECOGNIZING DAY & NIGHT

There are hours of the day that you have light and dark. When it is dark it is **nighttime**. When it is light it is **daytime**. When the sun sets it is called the **sunset** and when the sun rises it is called the **sunrise**.

DIRECTIONS: Circle the time of day that best matches the time on the clock!

P.M.

NIGHT SUNRISE
DAY SUNSET

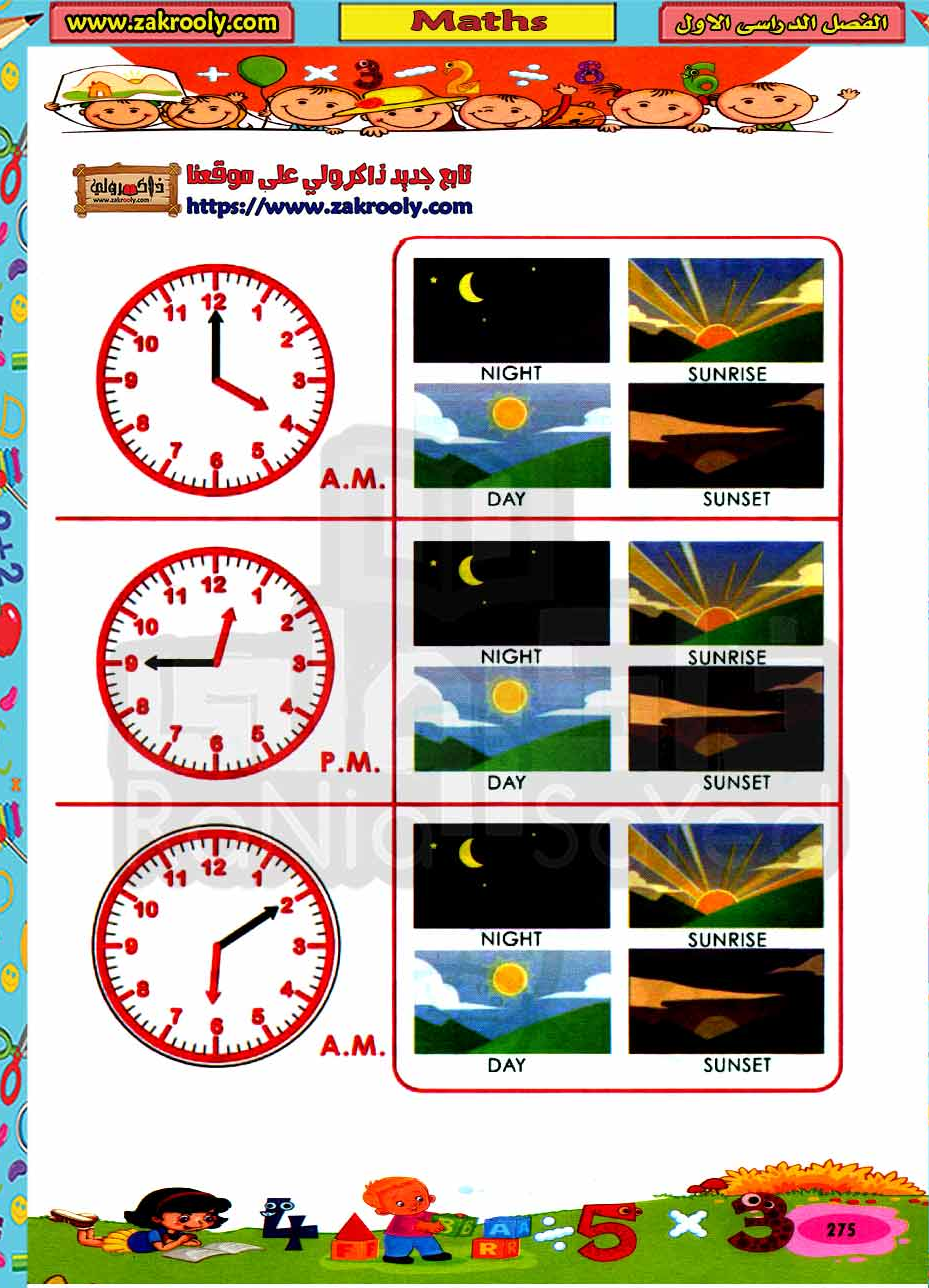
P.M.

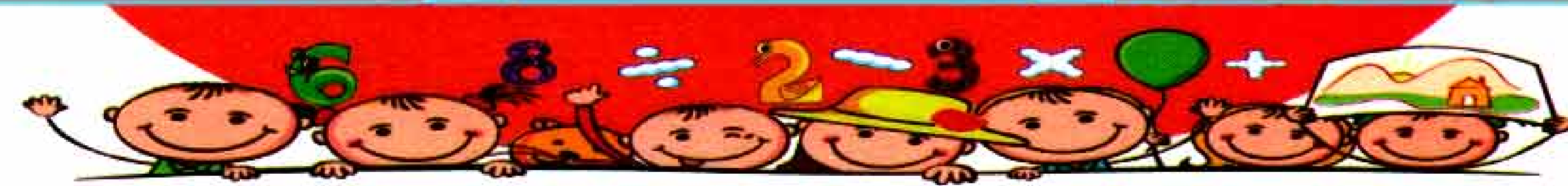
NIGHT SUNRISE
DAY SUNSET

A.M.

NIGHT SUNRISE
DAY SUNSET




11 12 1 2 3 4 5 6 7 8 9 10
A.M.
NIGHT
SUNRISE
DAY
SUNSET
11 12 1 2 3 4 5 6 7 8 9 10
P.M.
NIGHT
SUNRISE
DAY
SUNSET
11 12 1 2 3 4 5 6 7 8 9 10
A.M.
NIGHT
SUNRISE
DAY
SUNSET



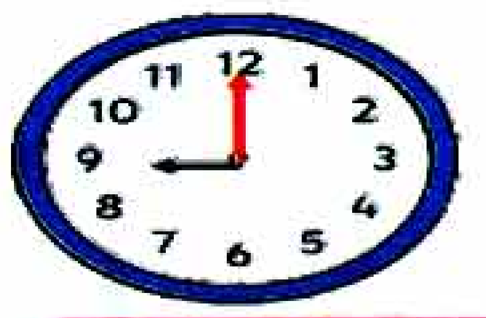
An hour "60 minutes" o'clock



10 O'clock
10: 00

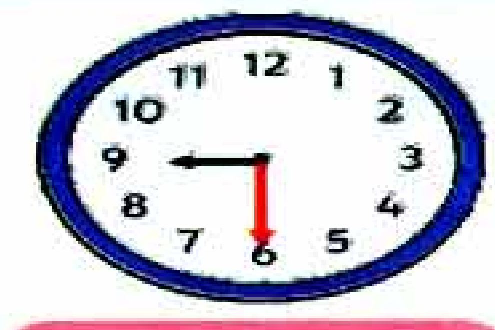


2 O'clock
02: 00



9 O'clock
09: 00

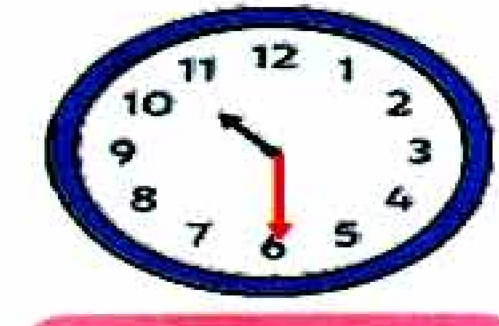
Half an hour "30 minutes" Half past



Half past 9
09: 30



Half past 4
04: 30



Half past 10
10: 30

Quarter of an hour "15 minutes" Quarter past



Quarter past 11
11: 15

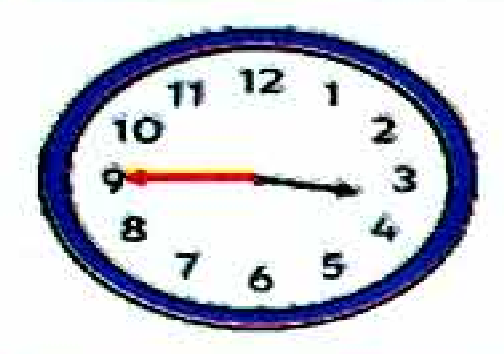


Quarter past 4
04: 15



Quarter past 7
04: 15

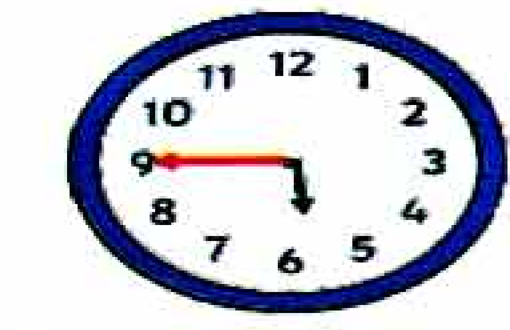
Three Quarter of an hour "45 minutes" Quarter to



Quarter to 4
03: 45

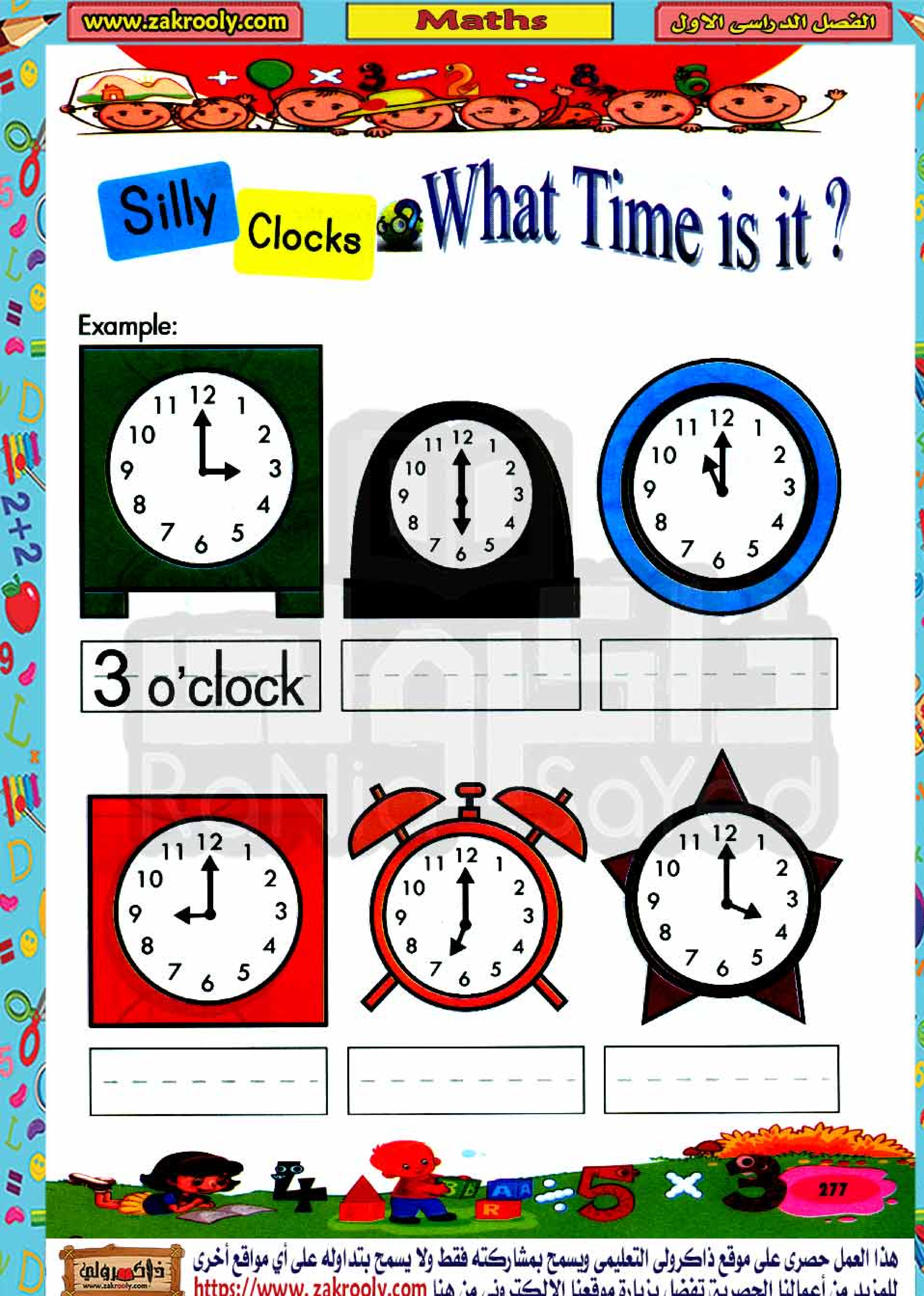


Quarter to 2
01 :45



Quarter to 6
05 :45

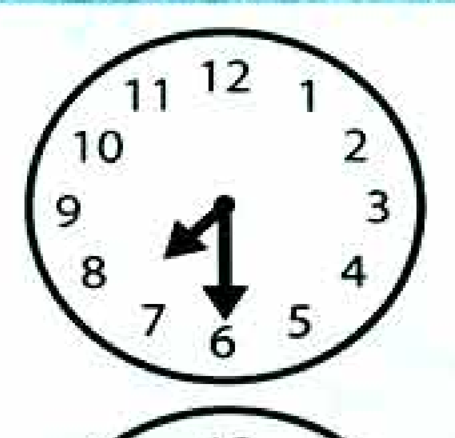



Silly Clocks
What Time is it ?
Example:
3 o'clock

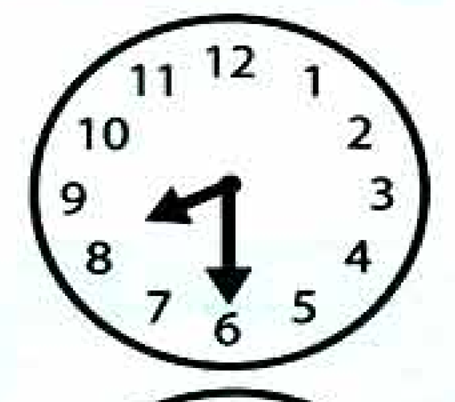


Half-Hour Match Up

View the time on the clocks . Draw a line from the time to the correct time on the clock .

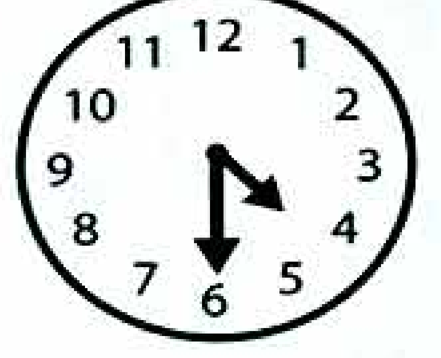






11:30

2:30



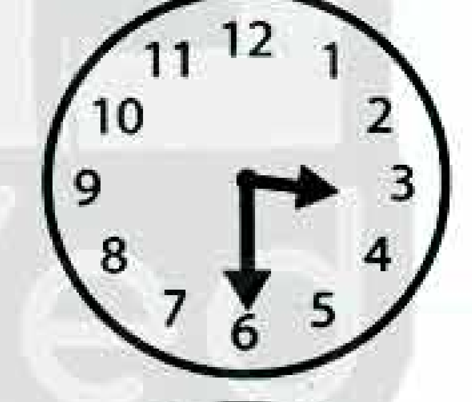
4:30

7:30



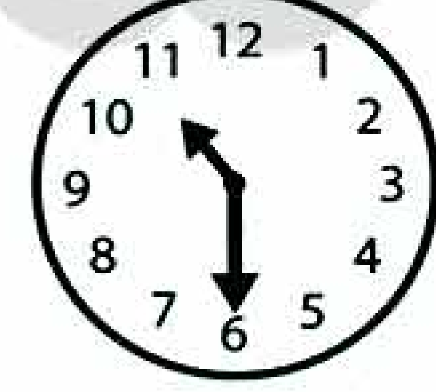
12:30

3:30



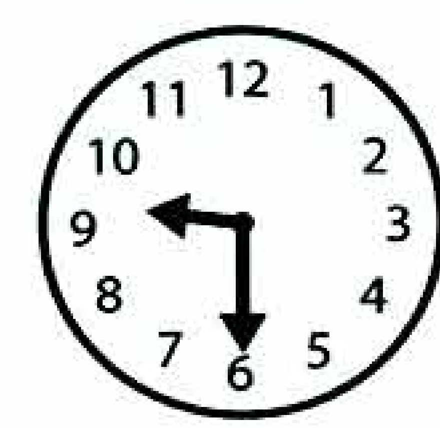
9:30

5:30



1:30

8:30



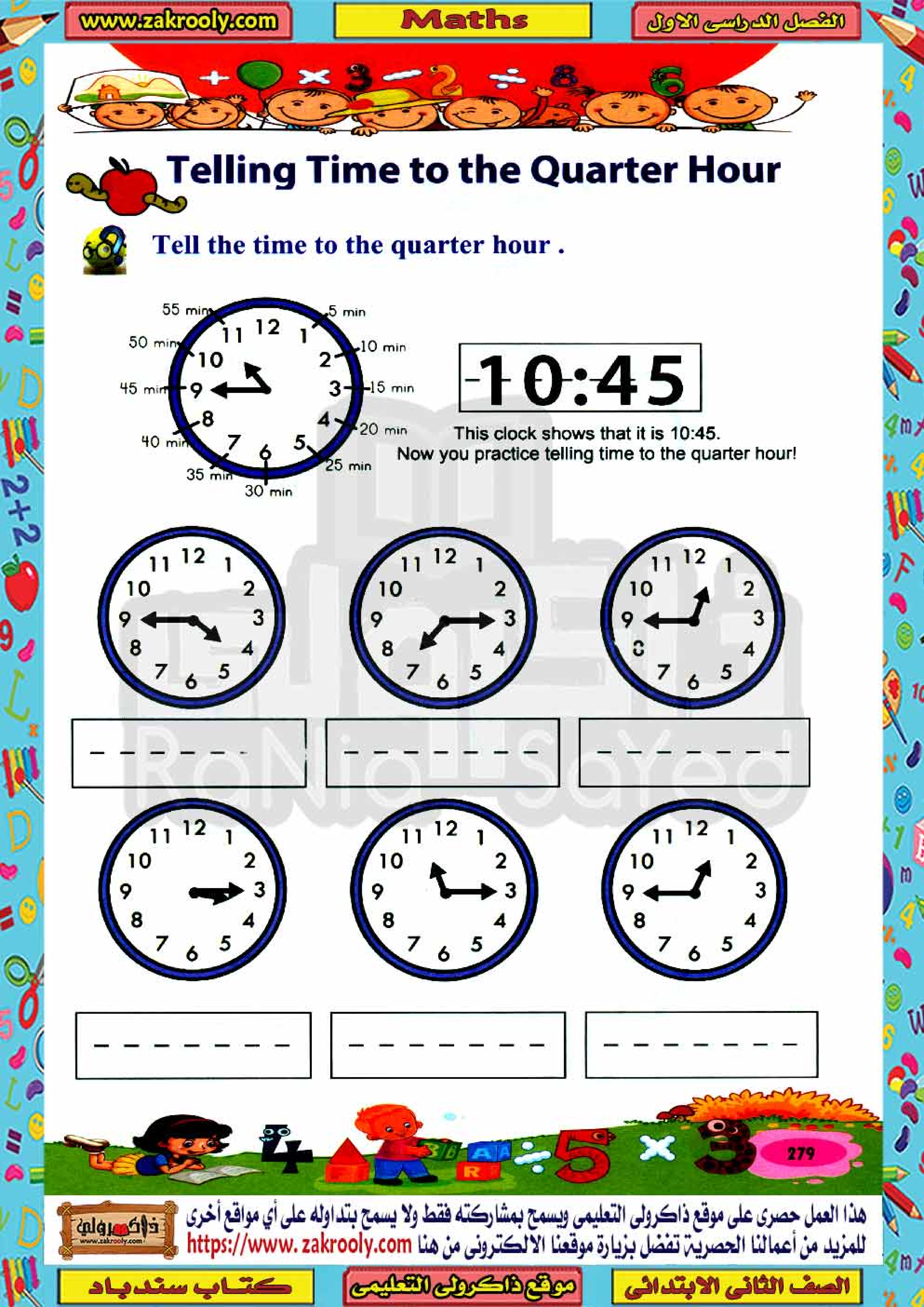
10:30

6:30









Telling Time to the Quarter Hour

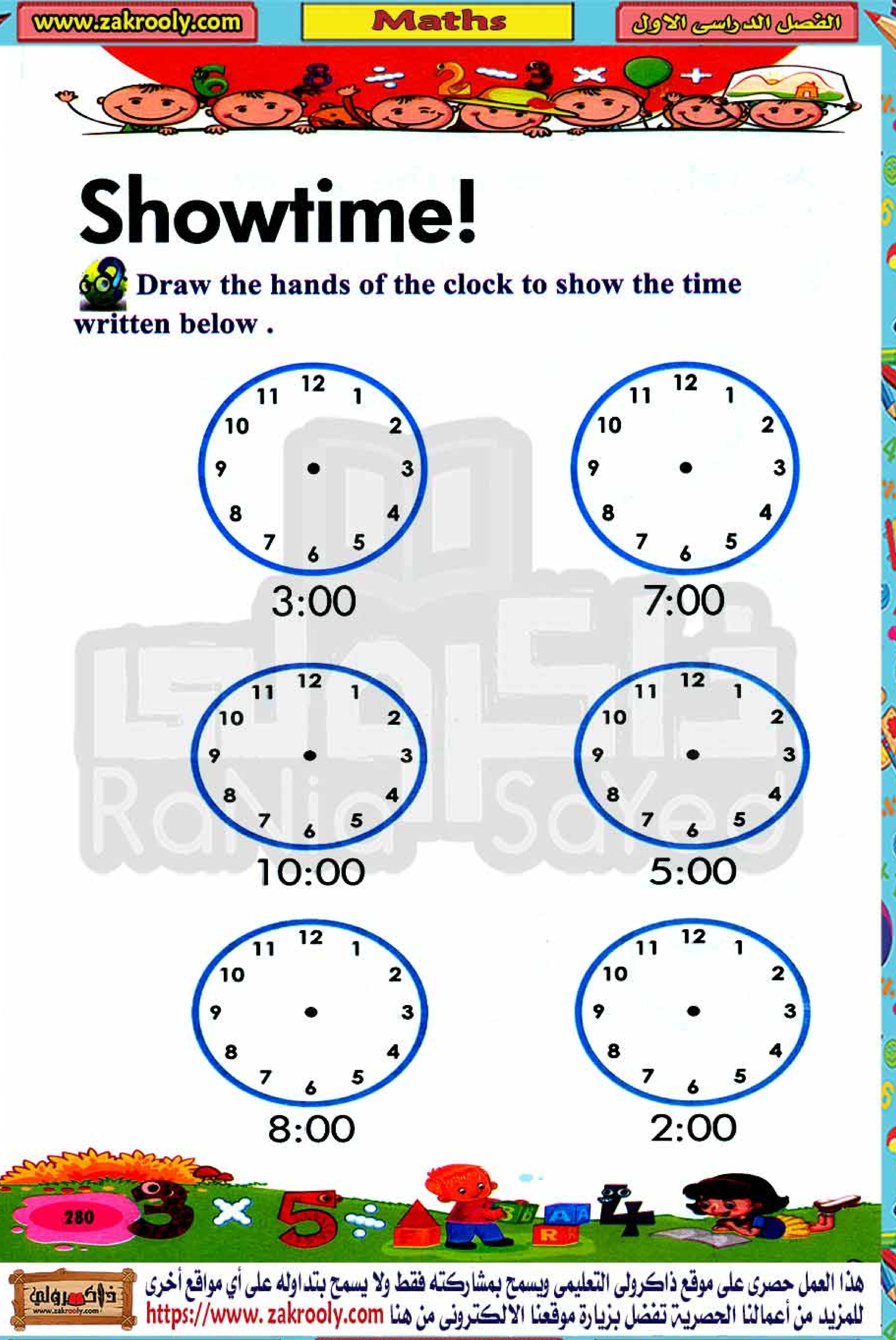
Tell the time to the quarter hour .

10:45

This clock shows that it is 10:45.
Now you practice telling time to the quarter hour!

----------	----------	----------

----------	----------	----------



Showtime!

Draw the hands of the clock to show the time written below .

3:00

7:00

10:00

5:00

8:00

2:00

Write the time as in the example .

It is half past 4

It is ------------------

It is ------------------

It is ------------------

It is ------------------

It is ------------------

09: 15

05: 30

01: 45

It is ------------------

It is ------------------

It is ------------------

09: 15

05: 30

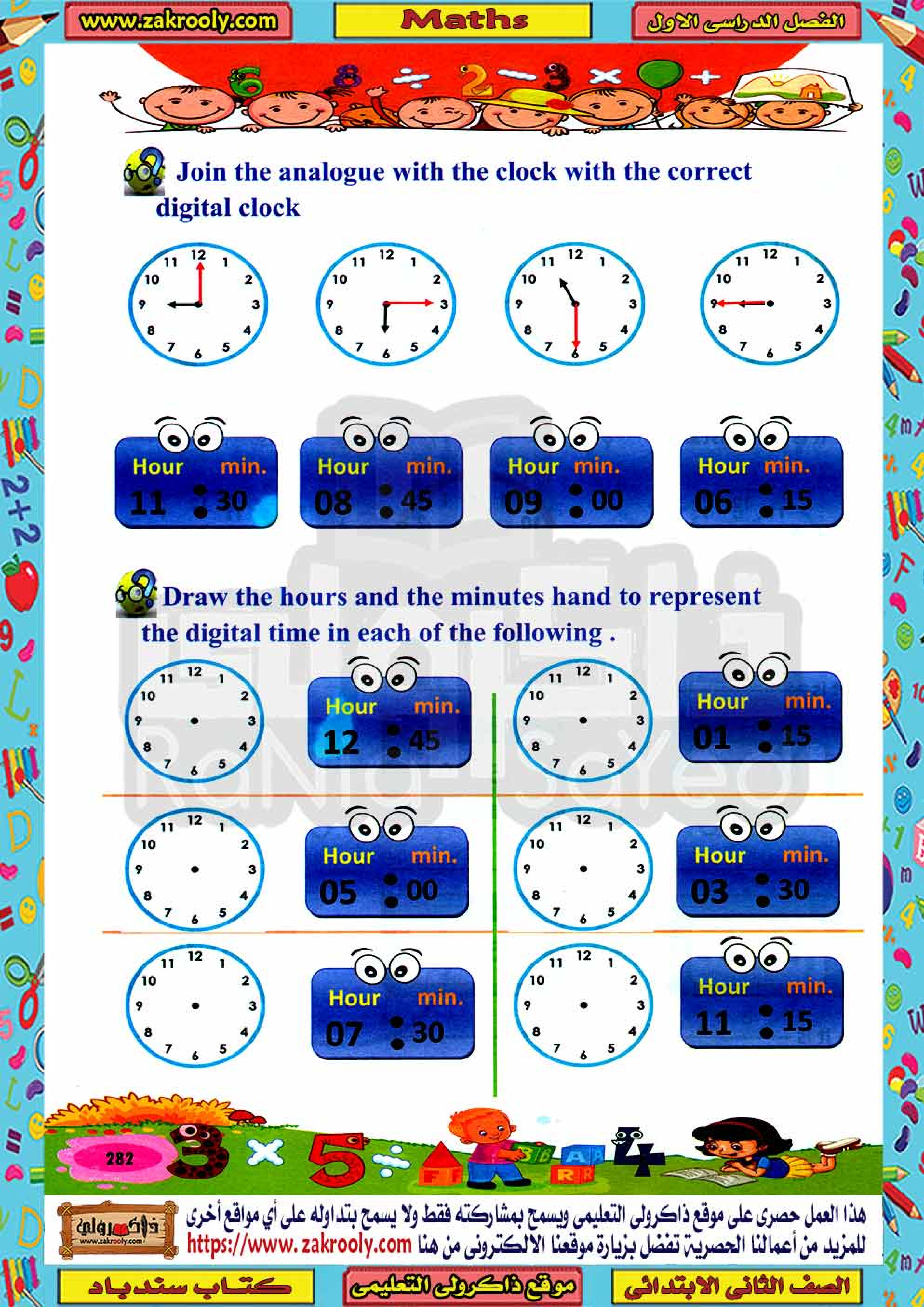
01: 45

It is ------------------

It is ------------------

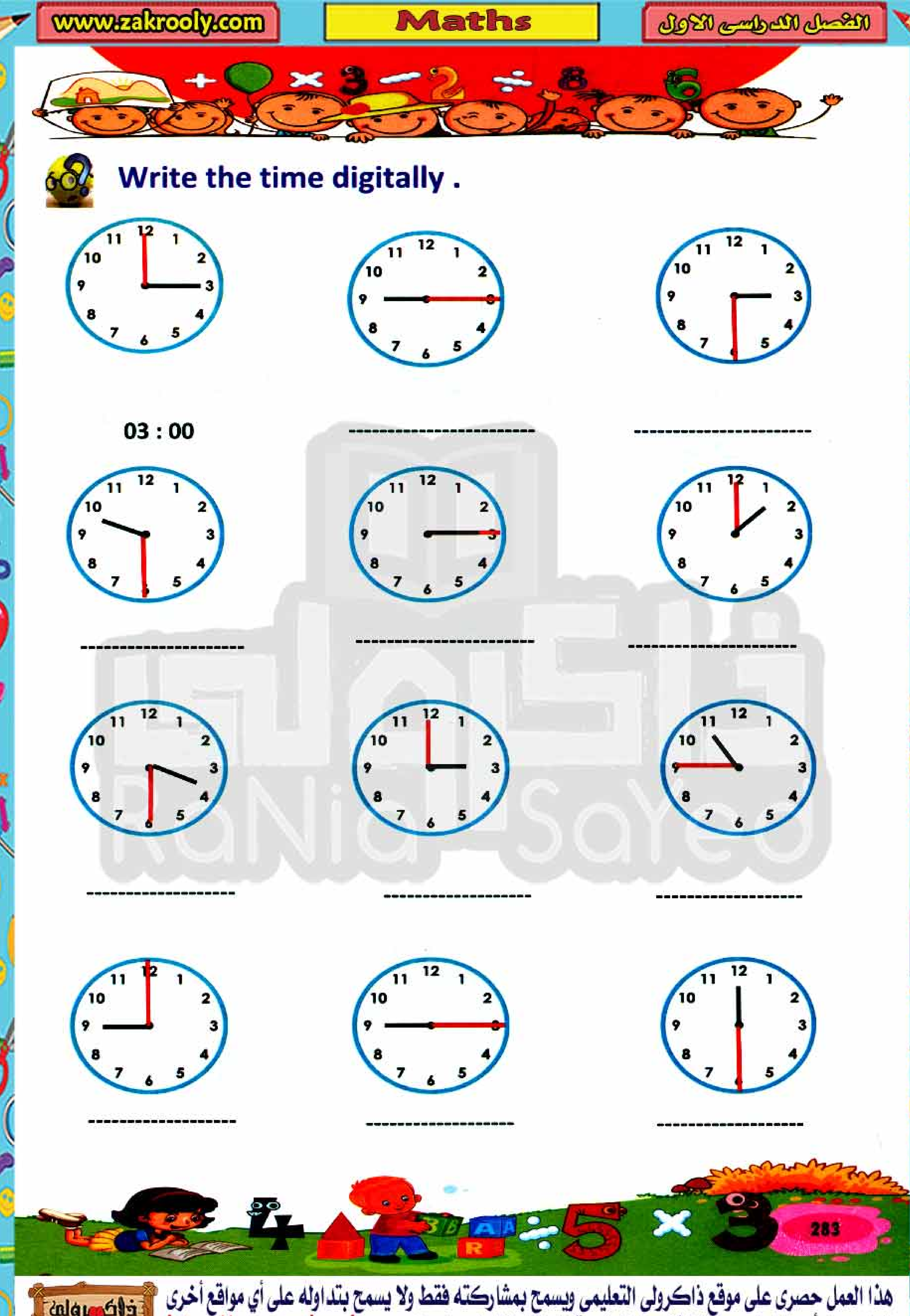
It is ------------------





Join the analogue with the clock with the correct digital clock

Draw the hours and the minutes hand to represent the digital time in each of the following .



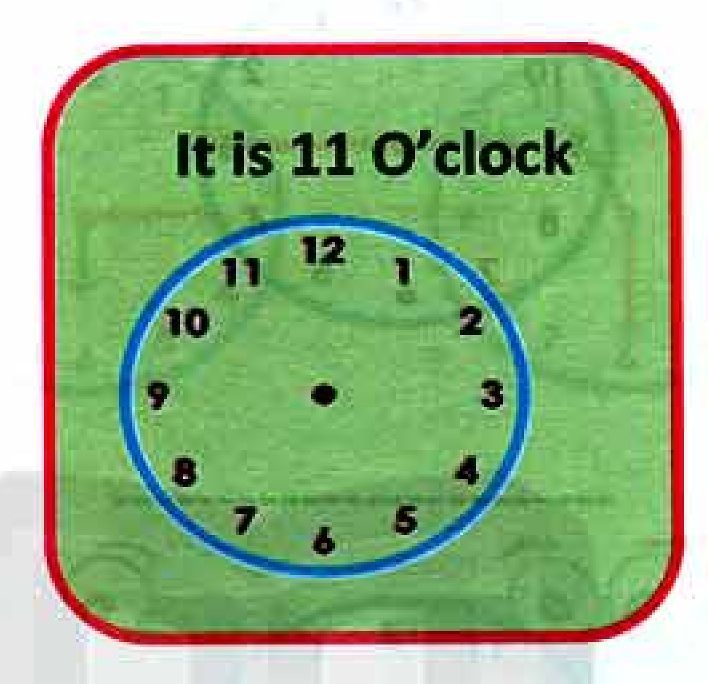
Write the time digitally .

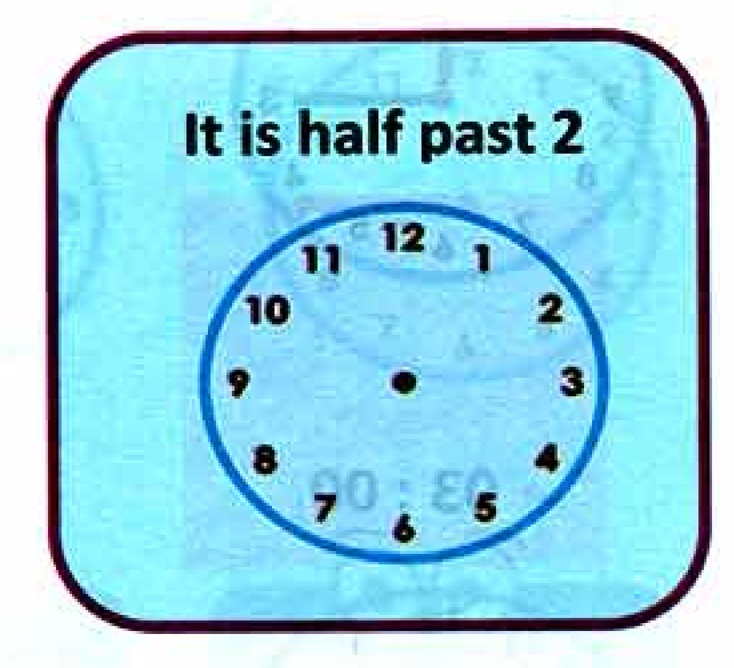
03 : 00



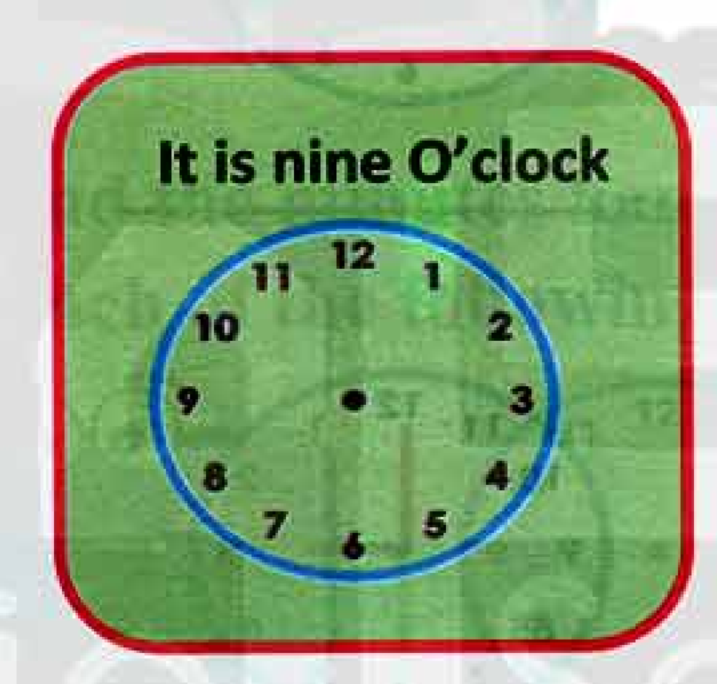
Draw the hands of the clock to show the time written below .

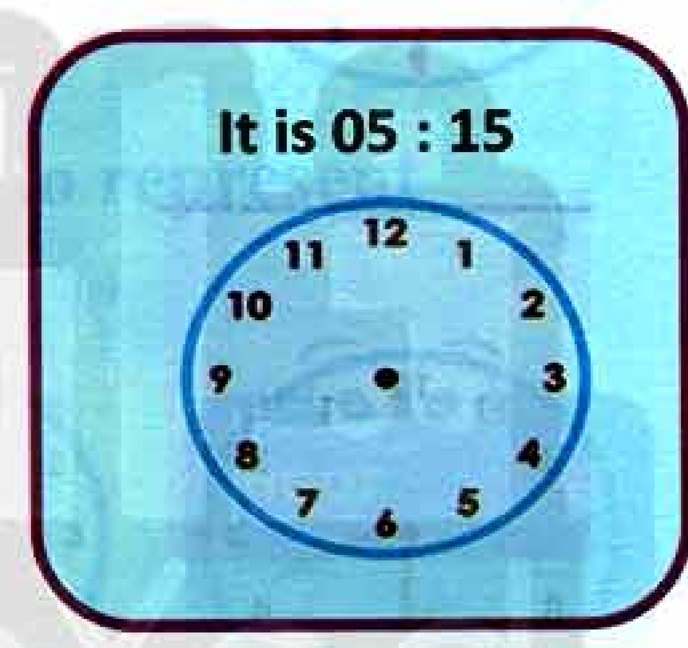


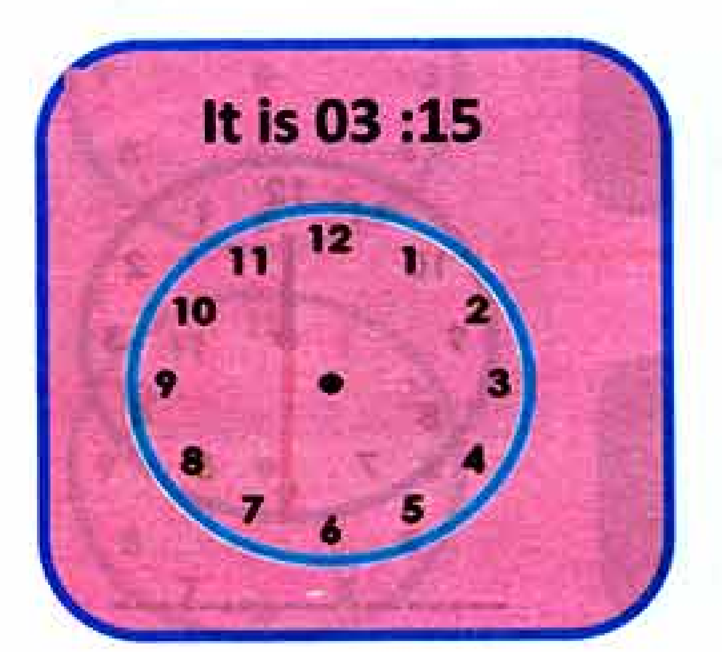


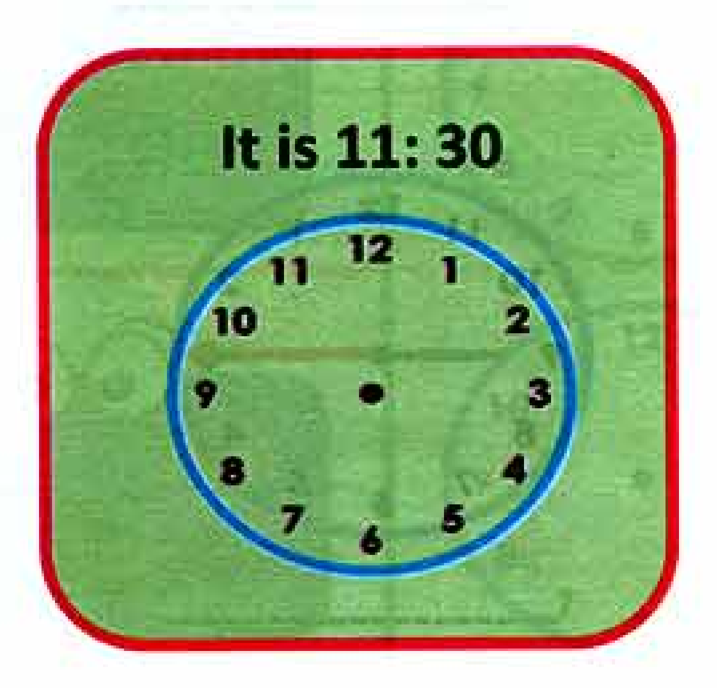


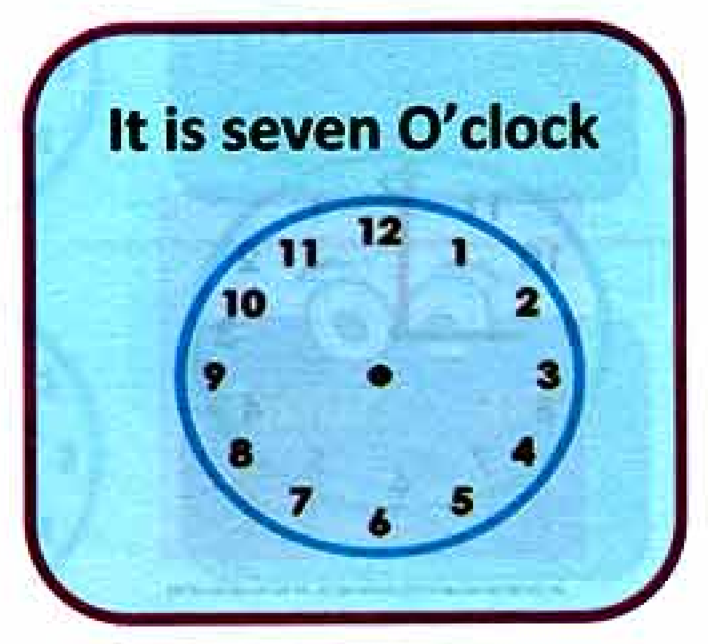






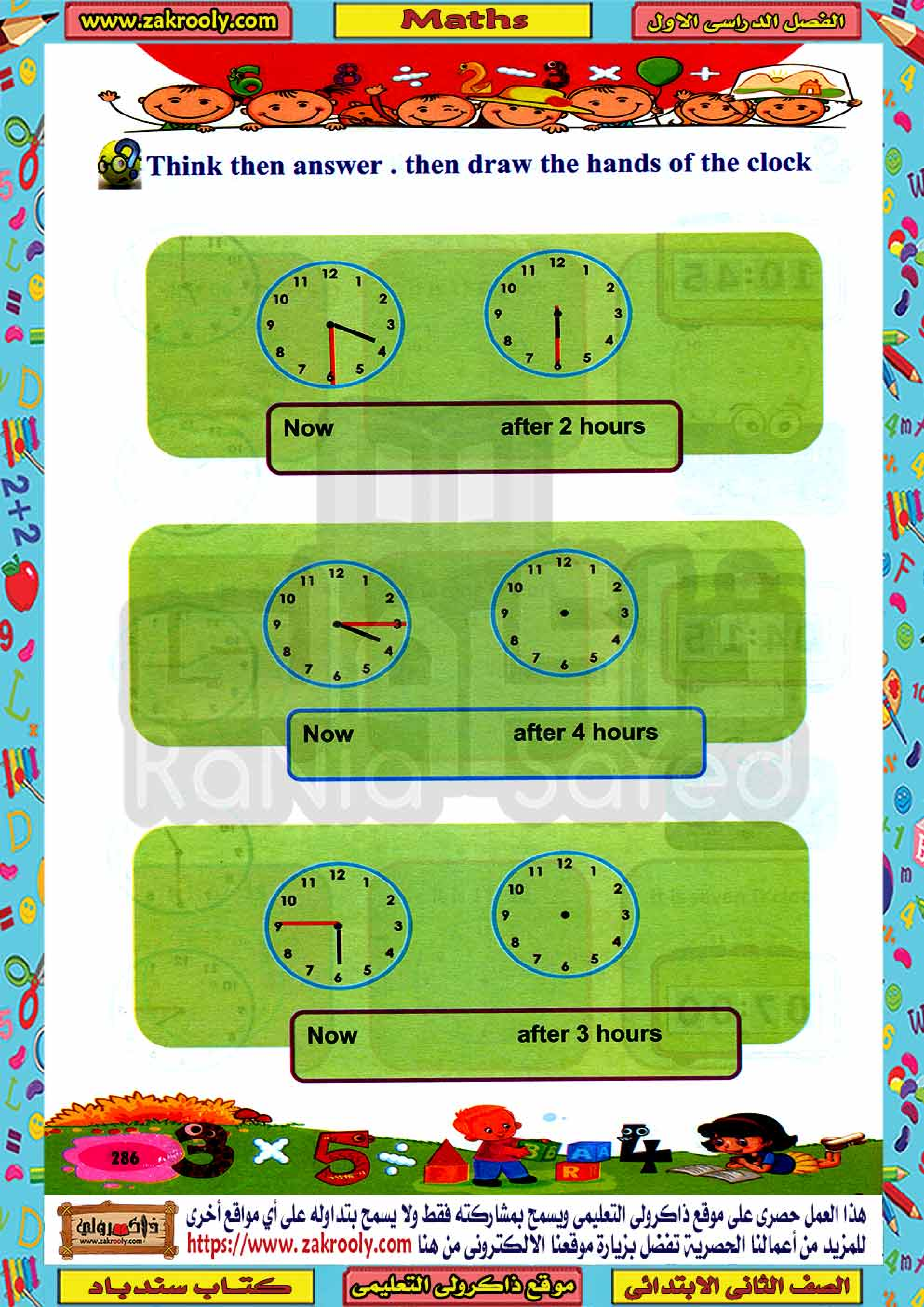




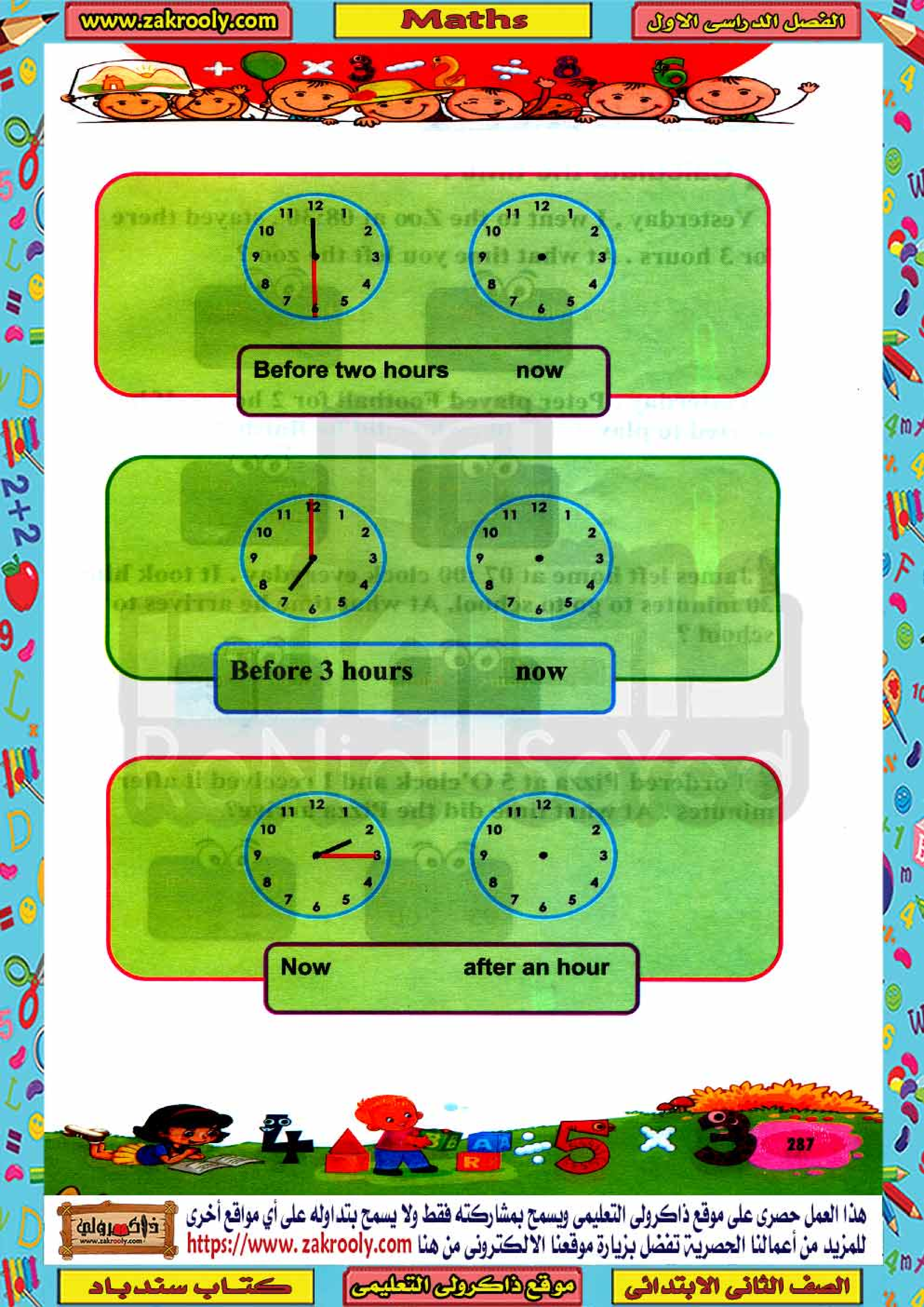




Join the each digital clock with it's equivalent clock .



Think then answer . then draw the hands of the clock


Before two hours
now
Before 3 hours
now
Now
after an hour





Calculate the time .

Yesterday , I went to the Zoo at 08:30 , stayed there for 3 hours . At what time you left the zoo ?





Yesterday , Peter played Football for 2 hours .If he started to play at 07:30 , when did he finish ?





James left home at 07 :00 clock everyday . It took him 30 minutes to go to school. At what time he arrives to school ?





I ordered Pizza at 5 O'clock and I received it after 45 minutes . At what time did the Pizza arrive?

